



SOJHRO

سو جھرو

**Bringing the Dawn Indoors:
Shaping Sindh's Solar Revolution.**

S – Sindh ,
O – Off/On Grid,
J – Journey of Light,
H – Homes ,
R – Roshan Resilience,
O – Overcoming the Darkness



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سُوجھرو
SOJHRO

SOLAR PANEL
MOUNTING
STRUCTURE/FRAME

01 SOLAR PV PANEL
(180 Watt Peak)

01 BLDC PEDESTAL FAN
(18 inches, 25 Watts)

INTEGRATED CHARGE
CONTROL UNIT
WITH BATTERY & MOBILE
CHARGING PORT

03 LED ENERGY
EFFICIENT BULBS
(5 WATTS EACH)







SOLAR HOME SYSTEMS INITIATIVE

POWERING HOMES, EMPOWERING LIVES

The Solar Home Systems Initiative aims to provide reliable, affordable, and sustainable energy solutions to households through both on-grid and off-grid solar technologies, particularly targeting beneficiaries all across Sindh with a clear process of selection.



TARGETING 275,000 HOUSEHOLDS ACROSS SINDH

Project Brief: Solar Home Systems (On-Grid & Off-Grid) Initiative – Sindh

Background

Access to affordable, reliable, and sustainable energy remains a major challenge for many vulnerable households across Sindh, particularly in rural and underserved areas. To address this challenge, the Government of Sindh Energy Department has initiated Solar Home Systems (SHS) to provide clean energy solutions to poor and low-income households through both on-grid and off-grid areas. The initiative aims to improve household energy security, reduce dependence on conventional and costly energy sources, enhance livelihoods, and contribute towards climate resilience and environmental sustainability.

Under the initiative, a total of 275,000 Solar Home Systems will be distributed and installed across Sindh (30 Districts) through a transparent beneficiary selection and technology-based implementation mechanism.



Project Categories and Target Beneficiaries

Category	Target	Eligibility Criteria
Off-Grid & BISP PMT 0-20	132,000 households	- Households having no Electricity & living in areas where electricity grid connectivity is unavailable or unreliable. - Vulnerable households identified through BISP PMT score of 0-20. Beneficiaries without electricity connections.
On-Grid	143,000 households	Households connected to the national grid with average monthly electricity consumption of up to 100 electricity units as reflected in their electricity bills.

Note: The BISP PMT 0-20 category represents the poorest and most vulnerable households and forms a major focus group within the overall allocation of 275,000 systems.

Solar Home System Package

Each beneficiary household will receive a complete solar energy package designed to meet basic domestic energy requirements, including:

- 01 Solar PV Panel (180 Watt Peak)
- Integrated Charge Control Unit with Battery & Mobile Charging Port
- 01 BLDC Pedestal Fan (18 inches, 25 Watts)
- 03 LED Energy Efficient Bulbs (5 Watts each)
- Solar panel mounting structure/frame



SOLAR HOME SYSTEMS INITIATIVE

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The Solar Home Systems Initiative aims to provide reliable, affordable, and sustainable energy solutions to households through both on-grid and off-grid solar technologies, with a focus on targeting beneficiaries at lower cost with a clear process of selection.



TARGETING 275,000 HOUSEHOLDS ACROSS SINDH

The package enables households to meet essential electricity needs including lighting, mobile charging, and operation of energy-efficient appliances.

Project objectives

- Provide clean and renewable energy access to 275,000 households across Sindh.
- Reduce dependency on expensive conventional energy sources and lessen the financial burden on poor households.
- Improve quality of life through enhanced household lighting, comfort, communication, and productive use of energy.
- Promote climate change mitigation through increased use of renewable energy.

Implementation Mechanism

The project is being implemented through the Last Mile Distributor (LMD) approach, with Sindh Rural Support Organization (SRSO) as the Lead implementing partner in joint venture with technical firms. The implementation follows a transparent MIS-based process, beginning with household verification, CNIC validation, and GPS-based beneficiary registration. After approval of the beneficiary list, Solar Home System kits are received, inspected, and distributed through a barcode-based inventory tracking system. Technical firm teams carry out installation at households, provide user orientation, and upload geo-tagged installation evidence and handover records on the MIS. A dedicated call center and third-party verification mechanism ensure after-distribution support, quality assurance, and transparency, while payments for LMD are processed against MIS-verified completed installations.





SOLAR HOME SYSTEMS INITIATIVE

POWERING HOMES, EMPOWERING LIVES

The Solar Home Systems Initiative aims to provide reliable, affordable, and sustainable energy solutions to households through both on-grid and off-grid solar technologies, particularly targeting low-income areas across Sindh with a focus on rural extension.



TARGETING 275,000 HOUSEHOLDS ACROSS SINDH

Expected Impact

The Solar Home Systems Initiative will transform the lives of 275,000 vulnerable households across Sindh by providing affordable and clean electricity, improving living standards, reducing energy costs, and supporting education and livelihood opportunities.

The project will also contribute to carbon emission reductions and climate resilience. With the support of the international partner Convolair Pvt Ltd, and through alignment with Gold Standard methodologies, the Government of Sindh is pursuing registration of the project in the international carbon credit market to formally recognize its environmental benefits and unlock future climate financing opportunities.

Impact Stories



Impact Story # 01

The L.I.G.H.T. Legacy

Livelihoods Illuminated, Gender Hope Transformed

Erasing generational energy poverty to rewrite the health, economic, and academic trajectory of rural daughters

- **Beneficiary: Mr. Allah Dino**
- **Location: Village Dalal Khan Shar, UC Kot Nawab, Sanghar**

The D-I-N-O Impact

D – Dignity Restored: Shifting a vulnerable family of seven from dark, smoky kerosene dependency to modern, self-reliant living.

I – Illuminating Mud Homes: Lighting up traditional mud structures with zero-emission, clean infrastructure.

N – Network & Connectivity: Eliminating long travel distances just to charge mobile phones, anchoring the family to digital information.

O – Overcoming Extreme Heat: Providing instant relief from oppressive desert temperatures for vulnerable children and elders.



"We built our home out of mud to keep out the desert heat, but without electricity, the nights became a dark, suffocating furnace for my seven family members. The day the solar team arrived in Dalal Khan Shar, the darkness that ruled our family for generations packed its bags and left."
– Allah Dino

For years, the household of Allah Dino in Village Dalal Khan Shar existed entirely outside the boundaries of the national grid. With seven family members packed into a traditional mud house, surviving the extreme summer heat of the Sanghar district without a fan was an agonizing daily ordeal. When the sun went down, the house became pitch-black in total darkness. The family had to ration expensive candles and toxic kerosene oil just to navigate their own rooms, while their children found it impossible to read or study after sunset.

The turning point came through the Government of Sindh's Solar Home Systems Initiative, initiated by submitting an application from a photocopier address. Because Allah Dino's home was completely cut off from grid connectivity, they were prioritized under the off-grid deployment phase of the project.

The family received an SHS kit, and the structural transformation of the mud house was immediate. The installation of the three 5-watt LED bulbs brought bright, safe lighting to the rooms, completely erasing the risk of indoor air pollution and fire hazards caused by open flames. For the first time, the family could safely sit together at night, and the children began studying comfortably into the evening.

Simultaneously, the 25-watt BLDC pedestal fan brought immediate cooling relief to the seven family members, completely transforming their health, sleep quality, and well-being during the scorching summer months.

Furthermore, the integrated USB mobile charging port saved them from taking frequent, expensive trips to the nearest town just to charge their communication devices. By replacing fossil-fuel lighting with zero-cost solar power, this initiative has successfully empowered Allah Dino's household, proving that sustainable development begins by lighting up the most underserved doorsteps in Sindh.

The transformation of Allah Dino's home perfectly embodies the SOJHRO mission: replacing generational energy poverty with a sustainable 180-watt solar kit. By permanently banishing the darkness from Village Dalal Khan Shar, this initiative has restored basic human dignity, protected household health, and shielded a vulnerable family of seven from extreme climate realities—turning a mud-brick house of survival into a home of safety, comfort, and a brighter future.

The S-O-L-A-R Impact

- **S – Sun-Powered Autonomy:** Harnessing clean solar energy through a 180W PV module to establish total household self-reliance.
- **O – Overcoming Dark Hours:** Converting dark evening spaces into bright, safe communal areas using energy-efficient LED lighting.
- **L – Lithium-Backed Security:** Storing daytime power reliably with integrated charge control for smooth overnight operation.
- **A – Affordable Energy Access:** Eradicating ongoing expenses on expensive alternative fuels to ease family financial stress.
- **R – Resilient Living:** Delivering high-efficiency BLDC fan cooling to shield vulnerable family members from extreme summer heat.

- **Beneficiary:** Abdullah
- **CNIC Number:** 44204-8957648-9
- **Location:** Village Noor Muhammad Brohi, Union Council Haji Daim Khan Damrah, Taluka Shahdadpur, District Sanghar
- **Household Profile:** Vulnerable Low-Income Household, Traditional Rural Setting

In the far flung Village Noor Muhammad Brohi, local life traditionally slowed to a crawl the moment daylight began to fade and still there is no concept of electricity.

For households like Abdullah's, managing basic domestic energy needs meant dealing with a continuous financial drain on volatile income, balancing the rising costs of fuel against the essential needs of the home. Without accessible, low-cost power, simple acts like lighting a room, ensuring child comfort during blistering afternoons, or keeping communication devices charged required frustrating trade-offs and frequent travel to town hubs.

A major developmental shift occurred when the Government of Sindh's Solar Home Systems Initiative, initiated by collecting applications and now verified by the Sindh Rural Support Organization (SRSO), extended its transparent deployment pipeline into Taluka Shahdadpur. Recognizing the family's vulnerability to energy gaps, the distribution seamlessly verified the household to receive a robust solar technology package.

The intervention immediately altered the baseline of daily operations. Equipped with a high-capacity 180-Watt Peak solar panel and an integrated lithium battery unit, Abdullah's home was instantly self-sufficient. The three energy-efficient 5W LED bulbs turned dark spaces into safely lit communal areas, providing crisp indoor lighting without harmful smoke or fire risks.

"For years, our village lived at the mercy of expensive fuel options and an unreliable energy issue. The moment the solar package was installed, it didn't just light up our roof—it changed the way my family works, studies, and breathes. It brought a steady future directly to our doorstep." – Abdullah

The S-O-L-A-R Impact



Simultaneously, the 18-inch BLDC pedestal fan introduced continuous cooling relief, allowing the family to rest comfortably and stay safe from harsh seasonal climates. With an integrated mobile charging port actively saving the family time and travel expenses, the initiative successfully proved that clean infrastructure has the power to transform survival into standard-setting local enterprise.

The success of Abdullah's household highlights the core promise of the SHS Project: bringing structural, climate-resilient equity to the most vulnerable area of Sindh. By replacing expensive, inefficient alternatives with a high-efficiency 180W solar system, this initiative has restored fundamental dignity, protected household health, and provided a safe, well-lit environment for the family to grow and thrive independently.



Impact Story # 03

B-R-I-G-H-T Initiative

Buildup of Renewable Infrastructure Generating Household Transformation

- **Beneficiary:** Abdul Haleem
- **CNIC Number:** 44204-4828898-1
- **Location:** Village Noor Muhammad Brohi, Union Council Haji Daim Khan Damrah, Taluka Shahdadpur, District Sanghar
- **Household Profile:** Off-Grid Low-Income Household, Vulnerable Rural Setting

In Village Noor Muhammad Brohi, navigating life without utility power was a continuous financial and physical strain. For Abdul Haleem and his family, the setting sun meant locking the household into absolute dependence on toxic kerosene burners and battery lanterns. Every month, a significant portion of their hard-earned income vanished just to keep basic flames burning in the dark. In peak summer, the unbearable desert heat made sleeping indoors impossible, while simple necessities like keeping a mobile phone charged required long, expensive trips into Shahdadpur town.

A turning point came through **the Government of Sindh's Solar Home Systems Initiative**; the Sindh Rural Support Organization (SRSO) team came to validate the information that I filled in the application. Recognized for its urgent energy needs, Abdul Haleem's household was prioritized for off-grid clean technology installation due to no electricity.

The family was equipped with a complete solar package: a high-efficiency 180-Watt Peak Solar PV panel, an intelligent lithium charge control unit, three ultra-bright 5W LED bulbs, an 18-inch energy-saving BLDC pedestal fan, and a built-in USB mobile charging hub.

The shift in quality of life was immediate. The clean LED bulbs instantly cleared the house of toxic black smoke, turning dim rooms into vibrant spaces where the family could gather and read safely into the night. The BLDC fan brought long-awaited relief from severe summer temperatures, safeguarding health and sleep quality. With local phone charging now built into their own wall, time and money previously wasted on town transits stayed right where it belonged—in the family wallet.

The story of Abdul Haleem exemplifies the essence of **The Government of Sindh SHS Initiative**: proving that sustainable energy infrastructure is the catalyst for genuine household transformation. By replacing generational energy poverty with clean, solar-backed autonomy, the SHS continues to restore dignity, protect health, and light a resilient path forward for off-grid families across rural Sindh.



"For years, darkness set the rules in our home. When the sun went down in Noor Muhammad Brohi, our day was over, and the smoky kerosene lamp was our only comfort—expensive, harmful, and dim. The **B-R-I-G-H-T initiative** changed everything in a single day. Now, our rooms are filled with clean light, our children rest in cool comfort, and we feel a deep sense of dignity every time we flip the switch."

— Abdul Haleem

Impact Story # 04

The S-H-I-N-E

Solar Home Innovation Nurturing Experiment & Inclusion

- S – Social Inclusion: Prioritizing vulnerable citizens and persons with disabilities (PWDs) to ensure equitable energy access.
- H – Health & Safety Safeguards: Eliminating dark navigation hazards and open-flame risks within the living space.
- I – Independent Mobility: Enabling seamless indoor movement during night hours without relying on constant assistance.
- N – New Economic Freedom: Halting recurring expenditures on disposable batteries, candles, and town transit fees.
- E – Empowerment Through Clean Tech: Utilizing a 180W solar PV panel and lithium unit to foster absolute self-reliance.

"When physical mobility is already a daily struggle, pitch darkness turns your own home into a field of obstacles. Before this solar system arrived, every evening forced me to rely entirely on others just to navigate my room or stay cool. Today, with the touch of a switch, I have light, comfort, and most importantly, my independence back. Clean energy didn't just brighten my house—it lifted a heavy weight off my life." – Shoukat Ali

In Village Faiz Muhammad Keerio, living without grid electricity presents distinct hardships, but for Shoukat Ali—a person living with physical disabilities—the energy deficit was a constant amplifier of daily adversity. Navigating a dark room after sunset posed severe safety risks, making simple indoor movement hazardous. Relying on dim, flickering kerosene lamps offered little visibility while introducing harmful fumes and fire dangers. Furthermore, the relentless summer heat of District Sanghar created intense physical exhaustion, as resting comfortably without continuous airflow was nearly impossible.

Recognizing that true social equity requires prioritizing those with the greatest vulnerabilities, the Government of Sindh's Solar Home Systems Initiative—implemented by the Sindh Rural Support Organization (SRSO)—verified and validated Shoukat Ali's household for targeted clean-tech intervention through his submitted application for solar home system.





Impact Story # 04

The S-H-I-N-E

The household was equipped with a standalone 180-Watt Peak Solar PV package featuring an intelligent lithium battery bank, three high-efficiency 5W LED bulbs, an 18-inch energy-saving BLDC pedestal fan, and a built-in USB mobile charging port.

The impact was immediate and deeply empowering. The bright, zero-flicker LED illumination transformed Shoukat's living space, allowing him to move around safely and independently long after dusk. The high-efficiency BLDC fan brought essential, continuous cooling during hot days, significantly improving his daily health and well-being. Additionally, having a dedicated charging port at home restored his direct link to family and emergency contacts without requiring tedious trips into Shahdadpur town.

"Energy access is fundamentally a matter of human rights and dignity. In rural development, persons with disabilities often face a double burden—navigating both physical limitations and severe infrastructure deficits. Shoukat Ali's story clearly demonstrates that when clean energy interventions intentionally include and prioritize differently-abled individuals, a solar panel becomes far more than an appliance. It becomes an equalizer that restores personal autonomy, safety, and self-worth."

Shoukat Ali's story stands as an inspiring testament to the SHS project, proving that inclusive, clean infrastructure can break down both physical and socio-economic barriers. By replacing darkness and dependency with self-sustaining solar energy, the SOJHRO success of solar distribution continues to deliver climate resilience, dignity, and equal opportunity to every corner of Sindh.

"Our sincere thanks to the Government of Sindh and the Energy Department for their unyielding commitment to rural empowerment. Through clean energy and inclusive action, you have broken generational energy poverty and restored dignity to thousands of homes across the province. Thank you for powering lives and illuminating the future of Sindh!"



The B-E-A-M

Building Energy Access & Mobility

B – Building Infrastructure: Deploying a premium 180W solar PV panel to establish total off-grid self-reliance.

E – Eradicating Fuel Costs: Halting the continuous financial drain on volatile income caused by kerosene and candle purchases.

A – Active Health Safeguards: Replacing smoke-filled fuel lamps with clean, safe LED lighting to protect respiratory wellness.

M – Modern Connectivity & Cooling: Supplying BLDC fan comfort and direct USB phone charging to improve daily quality of life.

Beneficiary: Photo

CNIC Number: 44204-5223142-5, **Mobile Number:** 0309-3675643

Location: Village Amanullah, Union Council Barhoon, Taluka Shahdadpur, District Sanghar, Shaheed Benazirabad Division

Household Profile: Low-Income Off-Grid Household

"Living without power in Village Amanullah meant our nights were dark, hot, and limited by how much fuel we could afford each week. The day this solar system reached our home, everything changed. We now have safe light in every room, cooling for our family, and a reliable connection to the outside world. It gave us our life back." – Photo

Before clean power reached Village Amanullah, the rhythm of Photo's daily life was strictly capped by daylight. Once dusk settled over Union Council Barhoon, basic domestic chores—cooking dinner, sewing, or navigating the house—became slow, hazardous efforts under the flickering glare of dangerous kerosene wicks. Beyond the immediate respiratory hazards of indoor smoke, fuel expenses chipped away at Devo's daily earnings, forcing a frustrating choice between buying lighting fuel or meeting basic kitchen needs.

During Sanghar's relentless summer heatwaves, the lack of power turned indoor quarters into stifling spaces, leaving the family exhausted before their workday even began. Even staying in touch with distant relatives or local health workers required a time-consuming trek to Shahdadpur town just to pay for a phone charge.

The installation of the 180W Solar Home System—delivered through the Government of Sindh and SRSO—fundamentally restructured the family's evening routine.

With three 5W LED lights mounted inside, Photo now prepares meals in a brightly lit, smoke-free kitchen without risking burns or inhaling soot. The 18-inch BLDC pedestal fan delivers continuous cooling through the hottest nights on minimal power, turning restless hours into genuine recovery.

Impact Story # 05

The B-E-A-M Building Energy Access & Mobility

Meanwhile, the integrated USB port has converted their home into an independent charging point, keeping their phone active without spending a single rupee on travel.

"Energy poverty isn't just about darkness; it's about the hours stolen from a family's day and the physical toll of surviving off-grid extremes. Watching Photo light up her home at dusk reveals what true development looks like—it's not just installing hardware on a roof, but giving a family back their time, health, and peace of mind."

Photo and Devo's journey showcases the practical power of the SHS Project initiative: taking high-efficiency, off-grid technology directly to the doorstep of Sindh's rural households. By trading smoky wicks for clean solar currents, this intervention turns everyday struggle into quiet confidence—proving that reliable energy is the fastest route to lasting household independence.



P-U-L-S-E

Power Unlocking Local Sustainability & Empowerment (Empowering Accessibility & Independence)

P – Pathway Illumination: Providing continuous, bright LED lighting so Ali Bux can safely navigate his home in a wheelchair after dark without collision or fall hazards.

U – Uninhibited Independence: Eliminating the need to constantly rely on family members to carry oil lamps or adjust dim lighting.

L – Lithium-Backed Reliability: Storing clean daytime energy to guarantee overnight safety, light, and cooling.

S – Sovereign Mobile Access: Enabling direct wheelchair-height USB charging, keeping communication devices always within arm's reach.

E – Essential Climate Relief: Delivering continuous BLDC fan airflow to protect health and reduce physical fatigue during oppressive heatwaves.

Beneficiary: Ali Bux (Person with Disability / Wheelchair User)

CNIC Number: 44203-0600540-1

Location: Village Bhai Khan, Union Council MC - Sanghar, Taluka Sinjhor, District Sanghar, Shaheed Benazirabad Division

Household Profile: Off-Grid Rural Household, Differently-Abled Head of Household



"When you navigate life in a wheelchair, darkness isn't just an inconvenience—it's a dangerous obstacle course. In the dark, a single unlit step or loose object can cause a severe fall. Before this solar unit arrived, sunset trapped me in one spot. Today, with clear LED light installed at home and continuous fan cooling, I can move around safely, manage my own space, and feel truly independent again."

– Ali Bux

For a wheelchair user in a village with no electricity, sunset doesn't just end the day—it locks down physical independence. In Village Bhai Khan, dusk used to turn Ali Bux's living space into a high-risk zone. Flickering oil wicks cast deceptive shadows across uneven ground, making every push of his wheels a slow, tense maneuver against unseen obstacles, tipping risks, or painful collisions.

The struggle compounded during Sinjhor's oppressive summer heatwaves. Trapped in stagnant indoor air without ventilation, the physical strain of extreme temperatures took a heavy toll on his health and rest.

P-U-L-S-E

Power Unlocking Local Sustainability & Empowerment (Empowering Accessibility & Independence)

Worse still, keeping his mobile phone charged meant asking family members to make long, exhausting trips into Sinjhora town—a loss of personal autonomy that weighed just as heavily as the darkness.

Recognizing that equitable development must actively remove barriers for differently-abled citizens, the Government of Sindh's Solar Home Systems Initiative—implemented by SRSO—prioritized Ali Bux's household for clean-tech deployment.

The intervention replaced dark hazard zones with instant, reliable power: a high-efficiency 180W solar PV panel, a long-life lithium battery system, three brilliant 5W LED lights, a low-wattage 18-inch BLDC fan, and an accessible USB charging point.

The impact was immediate and liberating. The crisp LED light erased dangerous floor shadows, allowing Ali Bux to navigate his home safely and independently at any hour of the night. The BLDC fan brought continuous, silent cooling through scorching days, shielding his health from severe heat stress. Most importantly, charging his phone right at wheelchair height restored his direct line to healthcare, family, and the wider world—without having to ask for a single favor.

"We often define accessibility through concrete ramps and wide doorways, but for a person with physical disabilities, light itself is a vital assistive technology. Darkness is an invisible barrier to mobility. Seeing Ali Bux wheel through a brightly lit, cool room proves that clean energy does far more than power appliances—it restores self-reliance, protects human dignity, and gives an individual back control over their own life."

Ali Bux's experience captures the ultimate purpose of the SHS-Solar Home System initiative: proving that solar technology is a powerful instrument of social inclusion. By replacing hazardous darkness with sustainable, self-generated power, this project demonstrates how clean energy breaks down both physical and societal barriers—ensuring that the path toward climate resilience leaves no one behind.

The G-L-O-W

Generating Light & Opportunity for Women

- **G-Gender-Centered Empowerment:** Giving rural women control over domestic lighting to safely extend productive evening hours and manage home care.
- **L-Life-Saving Safety:** Eliminating dangerous open-flame oil wicks and toxic indoor smoke that threaten family health and child safety.
- **O-Off-Grid Self-Reliance:** Storing clean solar energy via a high-capacity 180W panel and lithium unit to ensure seamless power through the night.
- **W-Well-being & Climate Comfort:** Powering an energy-efficient 18-inch BLDC fan to shield vulnerable household members from severe summer heatwaves.

Beneficiary: Mai Rukhsat

Spouse/Husband Name: Wahid Bux

Spouse CNIC: 44205-1377578-0

Location: Village Miandad Mangrio, Union Council Ghundan, Taluka Sinjhor, District Sanghar

Household Profile: Low-Income Rural Household, Female-Headed Household Dynamics



"For years, our evening chores were a daily fight against darkness and choking smoke.

Preparing meals over an open wick meant burning our eyes, while keeping the children comfortable during hot nights felt impossible.

The day this solar package was installed, it didn't just light up our roof—it brought safety, health, and a real sense of dignity back into our home."

– **Mai Rukhsat**

In Village Miandad Mangrio, living off-grid placed an exceptionally heavy physical burden on rural women. For Mai Rukhsat, managing daily domestic responsibilities meant completing household chores in near-total darkness once dusk fell over Union Council Ghundan. Preparing meals, mending clothes, and keeping children safe required relying on hazardous, flickering kerosene lamps that constantly filled their small rooms with suffocating fumes.

During the punishing summer heatwaves of District Sanghar, unventilated indoor spaces turned into furnaces, making restful sleep impossible and leaving the family exhausted before dawn. Additionally, necessities like keeping a mobile phone charged meant depending on male family members to make expensive, time-consuming trips into Sinjhor town.

Impact Story # 07

The G-L-O-W

Generating Light & Opportunity for Women

A decisive turning point came through the Government of Sindh's Solar Home Systems Initiative, implemented by the Sindh Rural Support Organization (SRSO). Recognized for its off-grid vulnerability, Mai Rukhsat's household was verified for clean-technology deployment.

The intervention replaced dark hazard zones with a complete clean-energy setup: a high-efficiency 180-Watt Peak Solar PV panel, an intelligent lithium-iron phosphate battery unit, three bright 5W LED bulbs, an 18-inch BLDC pedestal fan, and a wall-mounted USB mobile charging hub.

The transformation in Mai Rukhsat's daily life was immediate and profound. The crisp LED illumination eliminated toxic smoke from her kitchen space, allowing her to prepare meals safely and comfortably past dusk. The high-efficiency BLDC fan brought long-awaited thermal relief, ensuring her family rests peacefully through scorching summer nights. Meanwhile, having direct mobile charging right at home restored her immediate connection to healthcare workers, relatives, and essential local services.

"When clean energy reaches a rural home, women experience the most immediate, life-changing shift. For Mai Rukhsat, a 180W solar package is far more than hardware on a roof—it is an engine of women's empowerment. It frees her from the physical toll of toxic smoke, restores precious evening hours for rest and family care, and proves that clean technology is the fastest route to uplifting women across rural Sindh."

Mai Rukhsat's story highlights the core promise of the SHS initiative: driving inclusive, climate-resilient transformation straight into off-grid rural communities. By replacing smoke-filled wicks with self-sustaining solar power, this intervention restores health, builds household independence, and lights a clear path toward long-term gender equity and dignity in Sindh.

Impact Story # 08

R-A-Y-S

(Renewal, Accessibility & Yielding Sustainability)

R – Rural Inclusion: Reaching marginalized minority communities to ensure no household is left in the dark.

A – Active Health Protection: Replacing smoke-emitting oil lamps with clean, high-lumen 5W LED lights.

Y – Yielding Economic Savings: Stopping the constant drain on household income caused by kerosene fuel and disposable battery purchases.

S – Solar-Powered Resilience: Utilizing a 180W PV panel, lithium storage, and BLDC fan cooling to shield families from extreme climate stress.

Beneficiary: Chetan

Spouse / Father's Name: Dehraj

CNIC Number: 44205-2873086-9, **Spouse / Father's CNIC:** 44205-6321724-2

Location: Village Haji Chhutan Wassan, Union Council Wali Muhammad Keerio, Taluka Sinjhor, District Sanghar, Shaheed Benazirabad Division

Household Profile: Vulnerable Minority Rural Household, Off-Grid Setting



"When sunset arrived in our village, our world shrank to the small, smoky circle of a kerosene wick. Living off-grid meant spending a chunk of our hard-earned wages just to buy fuel for dim light and enduring stifling summer heat every night. The day clean solar energy reached our home, it felt as though a burden had been lifted. We finally have safety, cool air, and a reliable way to stay connected."

– Chetan

In Village Haji Chhutan Wassan, navigating daily life without utility grid access placed a continuous physical and financial strain on Chetan and his family. Once dusk fell over Union Council Wali Muhammad Keerio, routine domestic activities came to an abrupt standstill. Evening tasks were carried out under the flickering, toxic glow of fuel lamps, which burned the eyes and filled living spaces with hazardous indoor smoke.

During the intense summer months in District Sanghar, unventilated indoor spaces turned unbearable, making proper rest impossible after long days of labor. Furthermore, simple necessities—like keeping a mobile phone charged to contact relatives or local services—meant taking frequent, costly trips into Sinjhor town.

A turning point came through the Government of Sindh's Solar Home Systems Initiative, implemented on the ground by the Sindh Rural Support Organization (SRSO). Chetan's family was prioritized for clean technology deployment due to their off-grid vulnerability during the survey validation and installation.

Impact Story # 08

R-A-Y-S

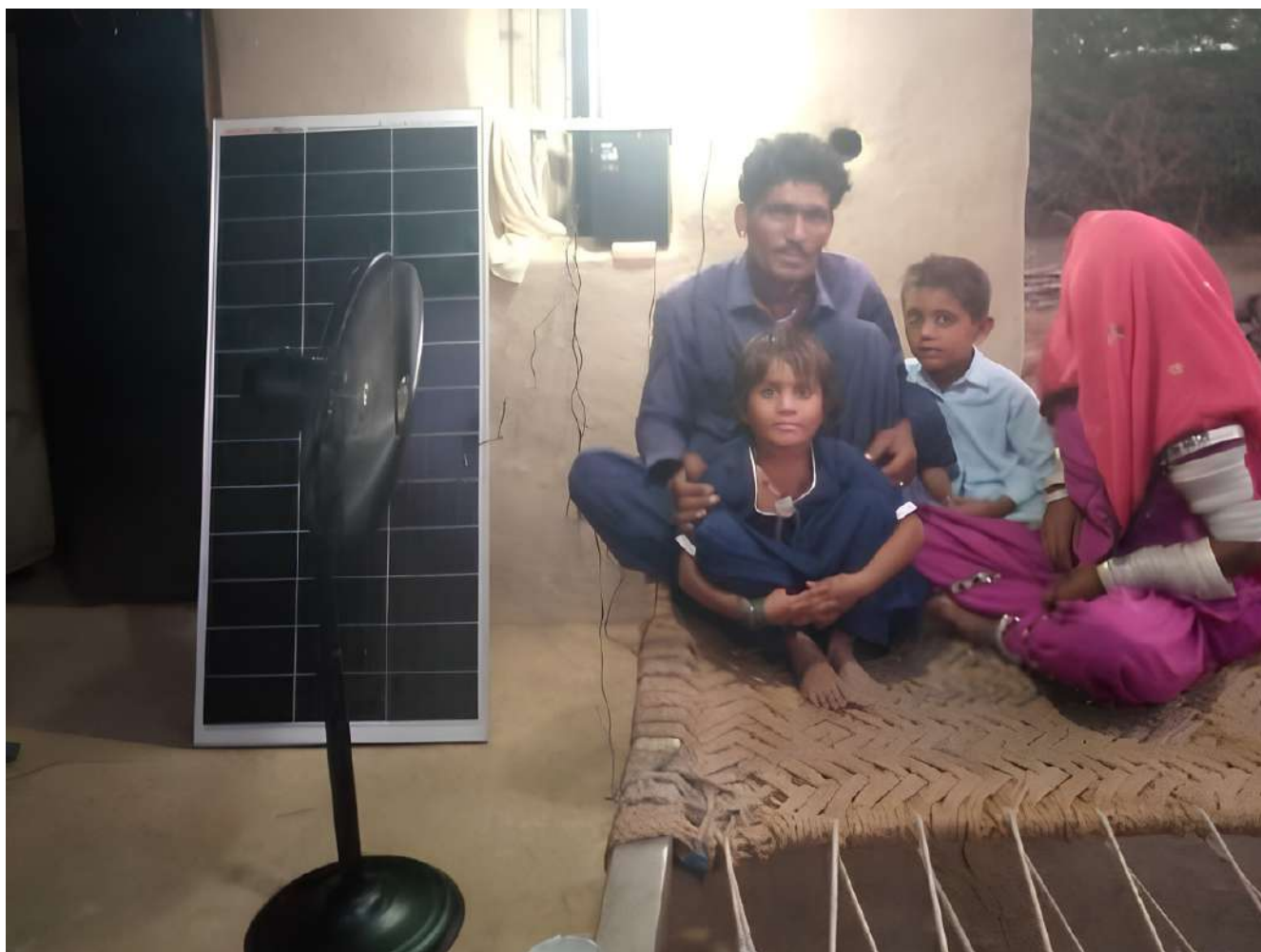
(Renewal, Accessibility & Yielding Sustainability)

The intervention delivered a complete solar home system: a high-efficiency 180-Watt Peak Solar PV panel, an intelligent lithium-battery charge control unit, three energy-saving 5W LED bulbs, an 18-inch BLDC pedestal fan, and a built-in USB mobile charging port.

The transformation was immediate. Bright LED lights replaced dangerous open flames, allowing the family to gather, cook, and manage evening needs safely and comfortably. The low-wattage BLDC fan provided crucial thermal relief through scorching nights, while the wall-mounted USB port eliminated unnecessary travel expenses, grounding the family in modern connectivity directly from their living room.

"True social progress occurs when clean technology reaches every corner of society, without distinction. For Chetan's family in Sinjhor, a simple 180W solar unit does far more than generate electricity—it delivers social equity, protects respiratory health, and restores dignity to off-grid minority households."

Chetan's story illustrates the foundational mission of the SHS Initiative: extending climate-resilient, clean energy solutions directly to Sindh's most vulnerable off-grid communities. By replacing costly, hazardous fuel dependence with self-sustaining solar power, this initiative continues to pave a bright path toward lasting household independence and dignity.



Impact Story # 09

The S-O-L-A-C-E

Solar Options Liberating And Comforting Every Home

- **S – Safe Domestic Environment:** Replacing open-flame oil wicks with clean, zero-emission LED bulbs to protect family safety.
 - **O – Off-Grid Autonomy:** Harnessing a 180W solar PV panel and long-life lithium battery storage for total energy self-reliance.
 - **L – Livelihood Preservation:** Halting the constant drain on household income caused by kerosene, candle, and battery purchases.
 - **A – Active Health Safeguards:** Eradicating toxic indoor smoke and soot that threaten respiratory wellness.
 - **C – Climate Comfort:** Powering a high-efficiency 18-inch BLDC fan to provide crucial cooling during oppressive heatwaves.
 - **E – Ensured Connectivity:** Offering on-site USB mobile charging to keep communication lines open without costly travel.
-
- **Beneficiary:** Khatijan
 - **Spouse / Father's Name:** Bheero
 - **CNIC Number:** 44201-2142789-2
 - **Spouse / Father's CNIC:** 44201-2410600-3
 - **Location:** Village Nauabad Laqua Ullah Narejo, Union Council Jam Nawaz Ali / Nauabad, Taluka Jam Nawaz Ali, District Sanghar, Shaheed Benazirabad Division
 - **Household Profile:** Low-Income Off-Grid Household, Vulnerable Rural Setting

"For years, when the sun went down over Nauabad, our home was swallowed by darkness and choking smoke. Preparing a meal or looking after my family under a dim kerosene flame was a constant struggle. The day this solar system reached our roof, it gave us far more than just light—it gave us safety, comfort, and peace of mind."

– Khatijan

In Village Nauabad Laqua Ullah Narejo, living off the utility grid created a daily sequence of hardships for Khatijan and her family. Managing evening household duties meant working under the weak, flickering glow of kerosene wicks that burned the eyes and filled living areas with hazardous black smoke. For rural women, these conditions turned routine tasks such as cooking and family care into stressful, slow ordeals.

During the scorching summer months in Taluka Jam Nawaz Ali, the lack of power turned unventilated indoor quarters into furnaces, leaving the family exhausted after sleepless nights. Furthermore, keeping a basic mobile phone powered required spending precious income and time traveling to local markets just to pay for battery recharges.

One day, a call from SRSO officials informed us that we were coming for a form of Solar validation under the Government of Sindh's Solar Home Systems Initiative, implemented by the Sindh Rural Support Organization (SRSO). Recognized for its urgent energy deficit, Khatijan's household was verified for clean-technology deployment during validation and installation. SRSO team first paid a field visit; later, as per the criteria, validated the application, and the Government Energy Department approved the cases

Impact Story # 09

The S-O-L-A-C-E

Solar Options Liberating And Comforting Every Home

The intervention delivered a complete standalone solar package: a high-efficiency 180-Watt Peak Solar PV panel, an intelligent lithium charge control unit, three energy-saving 5W LED bulbs, an 18-inch BLDC pedestal fan, and a wall-mounted USB mobile charging port.

The impact on Khatijan's household was immediate. Bright, crisp LED lighting completely cleared toxic smoke from her home, allowing her to manage evening needs safely and comfortably past dusk. The low-wattage BLDC fan introduced long-awaited thermal relief through harsh summer nights, while the built-in USB charger kept her connected directly from home, saving both time and money.

"Energy poverty takes a heavy physical and emotional toll on rural women who manage households in the dark. For Khatijan, a 180W solar unit is far more than an appliance—it is a foundation for human dignity. It removes indoor air hazards, lightens financial burdens, and proves that clean energy is a powerful catalyst for transforming women's lives in rural Sindh."

Khatijan's story illustrates the core purpose of the SHS Initiative: bringing clean, climate-resilient energy straight to off-grid communities. By replacing hazardous fuel dependence with self-sustaining solar infrastructure, this initiative continues to restore health, safety, and household independence across District Sanghar.



Impact Story # 10

The L-I-F-E

Lighting Innovation Fostering Empowerment

- **L– Livelihood Security:** Halting the drain on meager household savings by eliminating recurring purchases of kerosene, candles, and disposable battery cells.
 - **I– Illuminated Autonomy:** Unlocking clean, bright LED light for evening domestic work, child safety, and family care long after dark.
 - **F– Family Wellness & Health:** Removing toxic indoor soot, smoke, and fire hazards from closed living spaces.
 - **E– Energy Resilience & Comfort:** Providing continuous BLDC fan cooling and direct USB phone charging during severe climate heatwaves.
-
- **Beneficiary:** Shamim Akhtar
 - **Spouse / Father's Name:** Umar Din
 - **CNIC Number:** 44205-9043699-6
 - **Spouse / Father's CNIC:** 44205-1055706-7
 - **Location:** Brohi Muhalla, Town Committee Jhol, Union Council TC - Jhol, Taluka Sinjhor, District Sanghar, Shaheed Benazirabad Division
 - **Household Profile:** Vulnerable rural/Off-Grid Rural Household

"When the sun set over Jhol, our small home felt completely cut off from the world. Cooking dinner under a dim, smoky oil lamp meant choking on fumes and worrying about accidental fires, while the scorching summer heat made rest impossible. The day this solar unit was set up, it changed our lives. Clean light and cool air have brought genuine peace and safety back into our home."

– Shamim Akhtar

In the dense settlement of Brohi Muhalla in Jhol, living without reliable electricity created a heavy daily burden for Shamim Akhtar and her family. Once dusk fell, basic domestic tasks became slow, hazardous efforts. Preparing evening meals, managing domestic needs, or helping children read meant relying on flickering fuel lamps that filled their living quarters with acrid smoke and hazardous open flames.

During the punishing summer months in District Sanghar, unventilated indoor spaces turned stifling, making restful sleep nearly impossible and leaving the household exhausted before their daily labor even began. Additionally, keeping a mobile phone charged to stay in touch with relatives or local health facilities meant taking frequent, paid trips to commercial hubs, adding an extra strain on their tight weekly budget.

A team called me to inform me that they would like to visit and validate the Solar form you filled out for the Solar Home System under the Government of Sindh's Solar Home Systems Initiative. This initiative is implemented by the Sindh Rural Support Organization (SRSO). Recognizing the family's off-grid vulnerability, Shamim Akhtar's household has been verified for the deployment of clean technology.

Impact Story # 10

The L-I-F-E

Lighting Innovation Fostering Empowerment

The intervention delivered a complete, standalone clean-energy package: a high-efficiency 180-Watt Peak Solar PV panel, an intelligent lithium-battery charge control unit, three bright 5W LED bulbs, an energy-saving 18-inch BLDC pedestal fan, and a built-in USB mobile charging port.

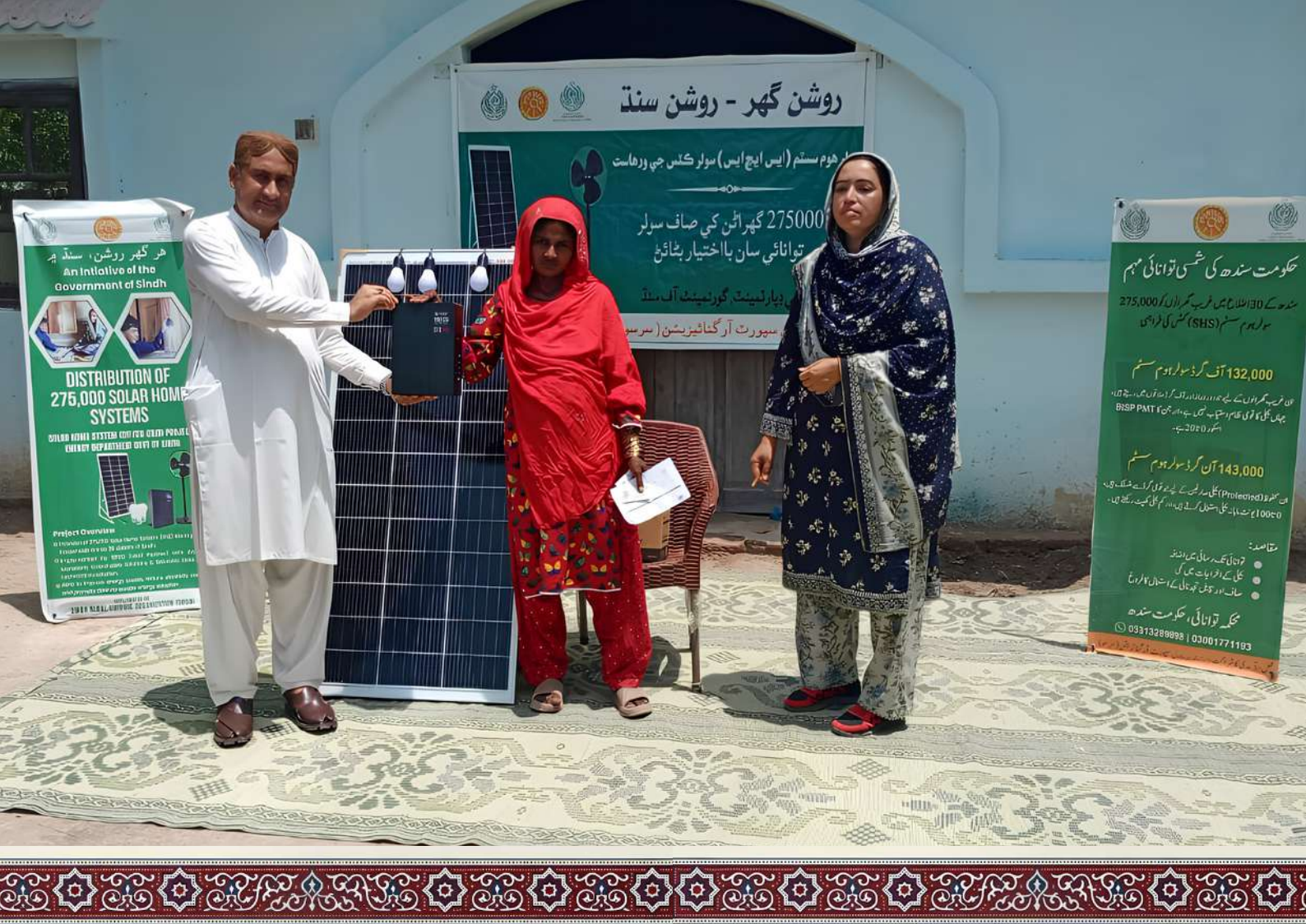
The transformation inside Shamim Akhtar's home was immediate. The crisp LED illumination completely cleared toxic smoke from her domestic space, allowing her to manage evening needs safely and comfortably past dusk. The energy-efficient BLDC fan brought long-awaited thermal relief through harsh summer nights, while the wall-mounted USB port restored direct phone connectivity right from her own living room.

Energy access is not just about bringing power to a bulb—it is about restoring peace of mind to women who manage households under difficult conditions. For Shamim Akhtar, a 180W solar unit is an engine of family health and dignity. It replaces smoke and heat with safety and comfort, proving that targeted clean energy is the fastest way to build resilient, empowered homes in rural Sindh."

Shamim Akhtar's story highlights the core mission of the SHS initiative: delivering sustainable, climate-resilient energy straight to vulnerable off-grid families. By replacing costly, hazardous fuel dependence with clean solar power, this project continues to restore health, safety, and long-term household independence across District Sanghar.









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