



SUSTAINABLE DEVELOPMENT REPORT 2019

Affordable and Clean Energy



Affordable and Clean Energy ■

Prince Sultan University taken efforts on bringing the environment pollution free and contribute towards climate change. As an important stakeholder, PSU contributes towards the achievement of sustainable cities and communities through various events, practices, and research. It regularly organizes events and exhibitions for students and employees to promote the affordable, clean and sustainable energy for all.

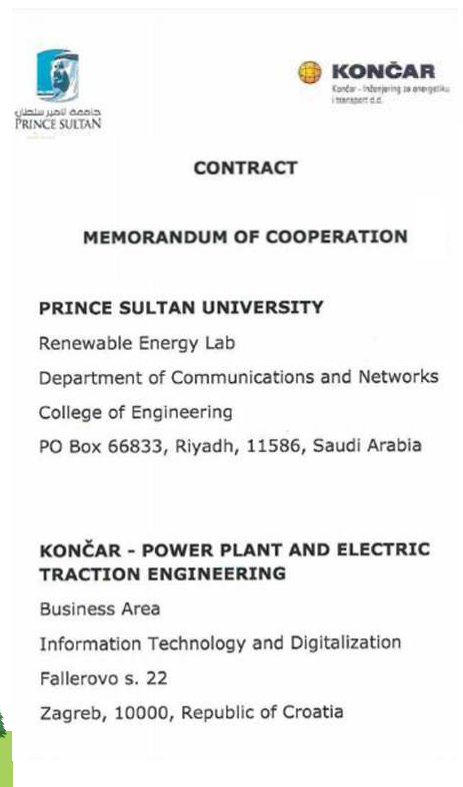
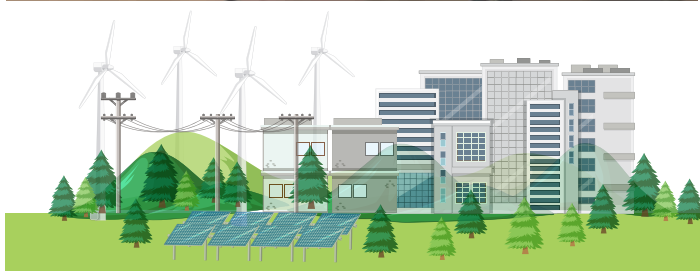
The strong commitment can be witnessed from the type of support provided in events related to clean energy, EV and the sustainable practices followed for sustainable PSU campus to promote renewable energy and energy efficiency, research contribution on microgrid and EV, etc. Moreover, the integration of clean and affordable energy as an important topic is endorsed in our curriculum and outreach.

Achievements ■

MoU with Koncar

The Prince Sultan University is involved in several industrial collaborations that are leading the way in the search for alternative energy sources. One such example comes from our Renewable Energy Lab, who are in cooperation with Koncar Power Plant Electric Traction, Croatia for a collaborative consultancy project on microgrids test bench for EV charging and renewable energy.

The focus areas of the sponsors chosen business themes towards Saudi Vision 2030 and United Nations Sustainable Development Goals (SDG 7, 9, & 11). The chosen themes help students, researchers, and faculty to gain the knowledge and experience on new technologies in the clean energy domain.








MoU with Power and Telecom Technologies Co., KFB Holding Group, Riyadh

Prince Sultan University is involved in several industrial collaborations that are leading the way in the search for alternative energy sources. One such example comes from our Renewable Energy Lab, who are in cooperation with Power and Telecom Technologies Co., KFB Holding Group, Riyadh for a collaborative consultancy project on investigations on minimizing electricity cost and feasibility study of self-sustainable campus.

The main objective of the project is to study PSU Lighting electricity network to provide Strategic solutions as per the sustainable development goals (SDG 7, 9, & 11).

- Benchmarking the energy usage with Solar based LED Lighting
- Implementing stepping stones for the Localization Target within renewable energy based lighting sector in context of the Vision 2030



A PSU - POWER & TELECOM TECHNOLOGIES CO. COLLABORATIVE CONSULTANCY PROJECT
on
INVESTIGATIONS ON MINIMIZING ELECTRICITY COST AND FEASIBILITY STUDY OF SELF-SUSTAINABLE CAMPUS

1. Aim:

The main objective of the project is to study PSU Lighting electricity network to provide Strategic solutions as per the sustainable development goals (SDG 7, 9, 11, 12, 13, 17)

- * Benchmarking the energy usage with Solar based LED Lighting
- * Clear plan for executing energy saving measures by identifying the energy Intensive electrical utilities inside the campus
- * Financial benefit (reduction in the billing cost), investment and payback period

2. Team Members:

Members from PSU:

Dr Umashankar Subramaniam, Renewable Energy Lab, College of Engineering

Dr Dhafer Almahles, Renewable Energy Lab, College of Engineering

Members from Industry:

Mr. Waleed Alboayz, Vice President, Power & Telecom Technologies Co., KFB Holding Group, Riyadh, Kingdom of Saudi Arabia

Mr. Nidal Barghouti, General Manager, Power & Telecom Technologies Co., KFB Holding Group, Riyadh, Kingdom of Saudi Arabia

Mr. Jafar Ali Thaip, Product Manager, Power & Telecom Technologies Co., KFB Holding Group, Riyadh, Kingdom of Saudi Arabia

Mr. Dilcep V Raj, Pre Sales Engineer – Solar, Power & Telecom Technologies Co., KFB Holding Group, Riyadh, Kingdom of Saudi Arabia

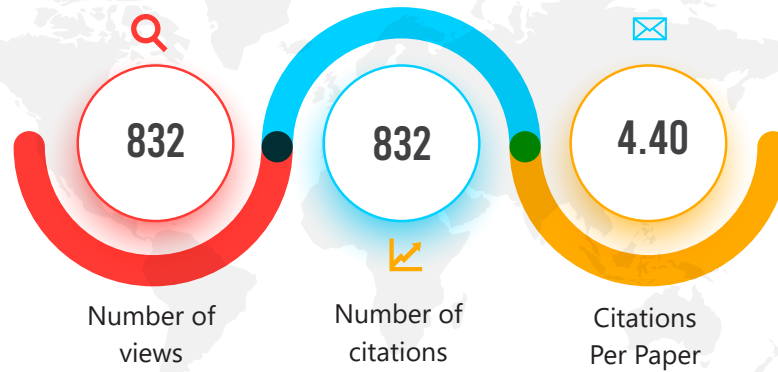




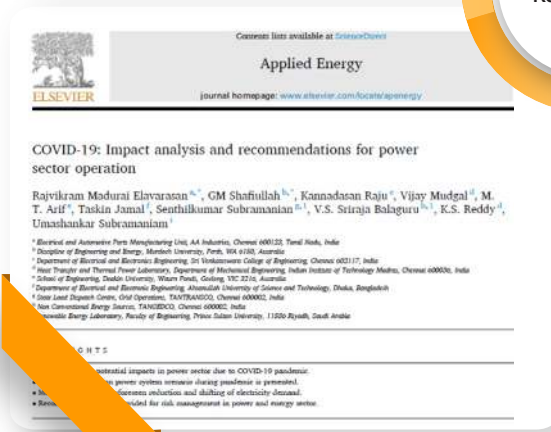
Metrics

Research on affordable and clean energy

PSU's scholarly output researches related to affordable and clean energy in the past academic year has 832 views, cited 189 times and has 4.40 citations per paper.



Renewable Energy lab, PSU is showing a serious commitment to encourage its researchers to increase their productivity in this field.





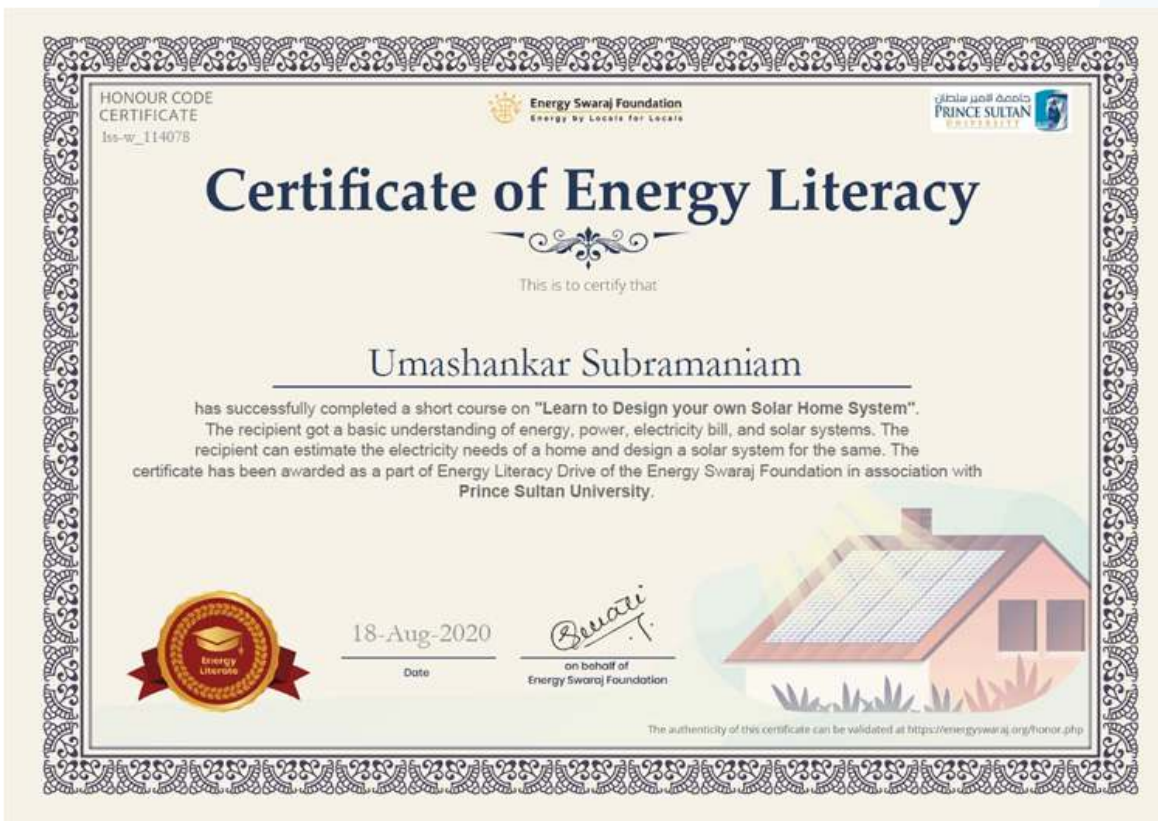
Energy and the community

PSU is partnered with ESF for achieving the following sustainable development goals (SDG 7,11,13 & 17), to promote 100% renewables and to train the students, researchers, faculty, and technical staff in PSU on Solar PV System Design with digital certification.

100% renewable energy pledge

Climate change is a major concern, which needs a collective response to mitigate its catastrophic effects. Energy Swaraj Foundation (ESF) is igniting the Energy Swaraj Movement to bring awareness to people on energy and climate change to make this planet liveable for the sake of our future generations. Renewable Energy Lab, PSU is partnered with ESF for achieving the following sustainable development goals (SDG 7,11,13 & 17), to promote 100% renewables and to train the students, researchers, faculty, and technical staff in PSU on Solar PV System Design with digital certification.

Energy Swaraj Foundation & Renewable Energy Lab jointly organised the "Learn to Design your Solar System." This course gives a unique opportunity to become Energy Literate irrespective of their educational background and experience.





SUSTAINABLE DEVELOPMENT GOALS

PSU's commitment to SDG 2030

PSU is committed to United Nations' Sustainable Development Goals (SDGs) through effective institutional resource management, innovative teaching and learning, research, national and international partnerships, continuous studies, and outreach. PSU shall undertake the following activities: form higher and steering committees, evaluate each SDG, formulate and develop related SDG policies, conduct awareness campaigns to the PSU community, establish a sustainability office, identify the SDGs related to each college, program, and course, and lab centers at PSU, and implement sustainability-related initiatives.

Vision

Prince Sultan University strives to support Saudi Arabia's Vision 2030 and the United Nations' Sustainable Development Goals (SDGs) by paving the way for higher education in KSA and Middle East.

Mission

Supporting the Saudi Arabia's Vision 2030 and the PSU's strategic directions, PSU aligns its mission with SDGs by providing quality education, sustainability initiatives, lifelong learning, scientific research, and community service.

جامعة الأمير سلطان
PRINCE SULTAN
UNIVERSITY



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