



SUSTAINABLE DEVELOPMENT REPORT 2019 Responsible Consumption and Production



Responsible Consumption and Production

Prince Sultan University took efforts on bringing down the environment pollution and contribute in the fight against 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 responsible consumption and production.

The strong commitment can be witnessed from the type of support provided in events related to E-waste and the sustainable practices followed in PSU campus that promote responsible consumption and production, research contribution, etc. Moreover, the integration of consumption and production as an important topic is endorsed in our curriculum and outreach.

Impact example

Prince Sultan University is involved in several industrial collaborations that are leading the way in search for alternative energy sources. One such example is our Renewable Energy Lab's association with Power and Telecom Technologies Co., KFB Holding Group, Riyadh for a collaborative consultancy project 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 (SDGs 12, 13 & 17).

Clear plan for executing energy saving measures by identifying energy-intensive electrical utilities inside the campus

Economic analysis for power quality improvement and energy savings

Identifying inefficient electrical processes in the campus

Analysis of financial benefit (reduction in the billing cost), investment and payback period







Metrics

Research on Responsible Consumption and Production



The commitment towards encouraging researchers is high at Prince Sultan University which results in high productivity across the department. PSU's scholarly output researches related to SDG 12 – responsible consumption and production in the past academic year has 1227 views and 4.03 citations per paper.

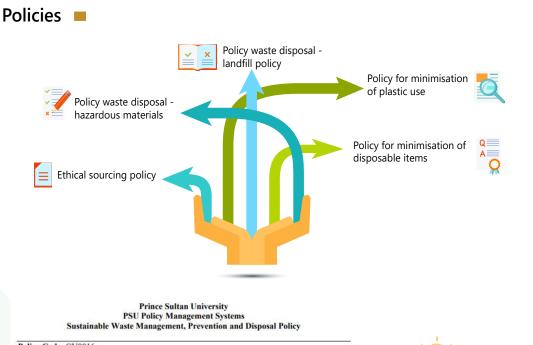












Policy Code: GV0016 Policy Name: Sustainable Waste Management, Prevention and Disposal Policies Handling Unit: PSU Maintenance Department Date of Current Revision: August 2020 Approved by: University Council Date of Approval: 02/09/2020

Purpose and Aims:

Prince Sultan University is a sustainable green university that preaches and applies sustainable development approaches and practices at all levels. As part of its endeavors to build a safe, green campus, PSU adopts sustainable waste management and disposal practices that are implemented in coordination with municipal and government agencies.

Aims:

PSU waste management and disposal policy aims to:

- Build and maintain a safe, healthy green campusApply the appropriate approach and use the proper channels for disposing waste based on its
- Minimize the use of plastics and reduce plastic waste
- Minimize the use of planted and reduce plante
 Minimize the use of disposable items
- · Adopt energy efficiency standards
- Avoid carbon-intensive industries and similar chemical processes that cause the emission of unhealthy gases
- · Measure and monitor the amount of landfill and recycled waste

Waste Handling and Disposal Channels

| Waste Category | Handling Approach | Channel |
|--|--|---|
| Solid Landfill waste | Disposal using appropriate channel | Municipal Waste Disposing network |
| Electronic Waste | Recycling through specilzed agencies recommended by the Municipality | Specialized agencies for disposing electronic waste |
| Publications and Paper Waste | Recycling or donation through recommended agencies or recognized charity organizations | Philanthropic societies and organizations |
| Hazardous Material Waste | Disposal through trusted specialized agencies recommended by the Municipality | Trusted specialized agencies for disposing hazardous waste |
| Reusable Furniture and Equipment | Donation to needy people and organizations through charity organizations | Recognized charity organizations |
| Carbon and gas emissions | Minimization or prevention | Instructions, regulations, and guidelines |
| Plastic waste | Minimization or prevention | Instructions, regulations, and guidelines |









Educational Events

Smart Grid and IoT for the **Integration of Renewables in** Saudi Arabia

Google Meet







PES

Power & Energy Society

Prof. Dr. Saifur Rahman Joseph R. Loring Professor of Electrical Engineering, Virginia Tech Advanced Research Institute, Virginia, USA.

- # Founding director of the Advanced Research Institute at Virginia Tech, USA.
- # Joseph R. Loring professor of electrical and computer engineering.
- # Life Fellow of the IEEE and an IEEE Millennium Medal winner.
- # President-elect of the IEEE Power and Energy Society (PES), 2018 and 2019.
- # Founding editor-in-chief of the IEEE Electrification Magazine and the IEEE Transactions on Sustainable Energy.
- # Conducted several energy efficiency related projects for Duke Energy, Tokyo Electric Power Company, the US Department of Defense, the State of Virginia and the US Department of Energy.
- # Published over 140 Journal and 400 conferences articles.



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Date: 16 Sept. 2020 Time: 4:00 to 6:00 PM (KSA) Day: Wedenesday

SRI SIVASUBRAMANIYA NADAR COLLEGE OF ENGINEERING

ion, Affiliated to Anna University. Cl

7TH INTERNATIONAL CONFERENCE ON ELECTRICAL ENERGY SYSTEMS

Organized by

In association with

Dr. N. B. Muthu Selva

Dr. V. Thiyagarajan Ansociate Professor

Dr. M. Devesh Raj

Organizer **CME Student Activity Committee** and Renewable Energy Lab Email: usubramaniam@psu.edu.sa



Outline

- · The operational characteristics of renewable energy sources.
- · Various Aspects of Smart Grid -Technology, Standards, and Regulations.
- · Addresses the interplay among distributed generation, storage, and conventional generation to provide an efficient operational stratergy.

Registration

Please register your name by using Link. https://forms.gle/iEt3K1hMwhKXZFnz6

The link of the webinar will be sent to the registered E-mail ID.











ØIEEE

ICEES 2021





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.



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