



Pipeline solar energy collection and power generation

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In concentrating solar-thermal power (CSP) plants, collectors reflect and concentrate sunlight and redirect it to a receiver, where it is converted to heat and then used to generate electricity.

Converting solar power to natural gas (i.e., first to hydrogen and then to methane) and having access to utility-scale storage in the natural gas network has the potential to make solar power generation a ...

This study presents a novel energy harvesting device that combines piezoelectric and electromagnetic transduction to extract energy from fluid flow within pipelines to supply power to ...

New electricity generation projects are expected to significantly boost New Zealand's energy system over the next two years. As at October 2025, there were 288 projects in the pipeline, ...

In solar energy pipelines, the predominant types of systems involve photovoltaic (PV) technologies and concentrated solar power (CSP) systems. PV technologies efficiently convert ...

This study introduces a novel hybrid energy harvester that effectively integrates solar and flow energy sources to provide a sustainable power solution for IoT-enabled pipeline monitoring ...

Many Congressional Democrats and environmentalists want to increase renewable energy deployment four-fold by 2030 and double the rate at which transmission lines are being built, ...

As oil and gas operators ramp up their efforts to reduce their carbon footprint, more and more renewable energy projects will be constructed adjacent to pipeline infrastructure and facilities.

As a case study, this work models renewable hydrogen production from solar energy in North Africa and its injection into the existing subsea gas transmission pipeline between Libya and Italy.



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