Special Issue

Tidal Turbines

Message from the Guest Editors

Tidal turbines generate energy from tidal currents. One of the major interests of this renewable energy is its predictability. With its predictability, tidal turbines are ideally suited to be integrated with smart grids. The areas of interest for the installation of these devices are spread all over the world. They are characterized by a complex bottom morphology and flow due to currents which can be disturbed by waves, the presence of sediments, or objects transported by the flow. The design, positioning of the turbines, maintenance, and interactions must consider these aspects. At present, the cost of tidal turbines is higher than that of technologies such as wind turbines, and reducing this cost remains a challenge from the design of the machine to the installation and maintenance operation.

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