اولین همایش ملی مدیریت انرژک هاک نو و پاك

۱۳ شهریور ۱۳۹۳

همدان دانشكده شهيد مفتح





















Top down strategy for renewable energy investment: sizing methodologies and Integrated Renewable Energy System models

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ABSTRACT: In this paper, we present a top down strategy for renewable energy investment. The proposed approach is a three-step framework. By applying the approach, renewable energy global market leaders and trends will be identified and analyzed that included: (1) economics and renewable energy policy, (2) specific renewable energy sectors that presents the most attractive investment opportunity, (3) and finally the most promising renewable energy investment vehicles for investors. Other stakeholders can also use the developed framework, such as consumers and policymakers, to make socio-economic decisions and assess renewable energy investments. This paper presents an extensive review on various issues related to Integrated Renewable Energy System (IRES) based power generation. Issues related to integration configurations, storage options, sizing methodologies and system control for energy flow management are discussed in detail.

Key words: Renewable energy, Renewable energy policy, Renewable energy investment, integrated systems, Renewable energy resources, Renewable energy policies