

# **The Enigma of Resource-Rich Iran's Pursuit of Nuclear Energy**

NPEC Meeting, March 9, 2018

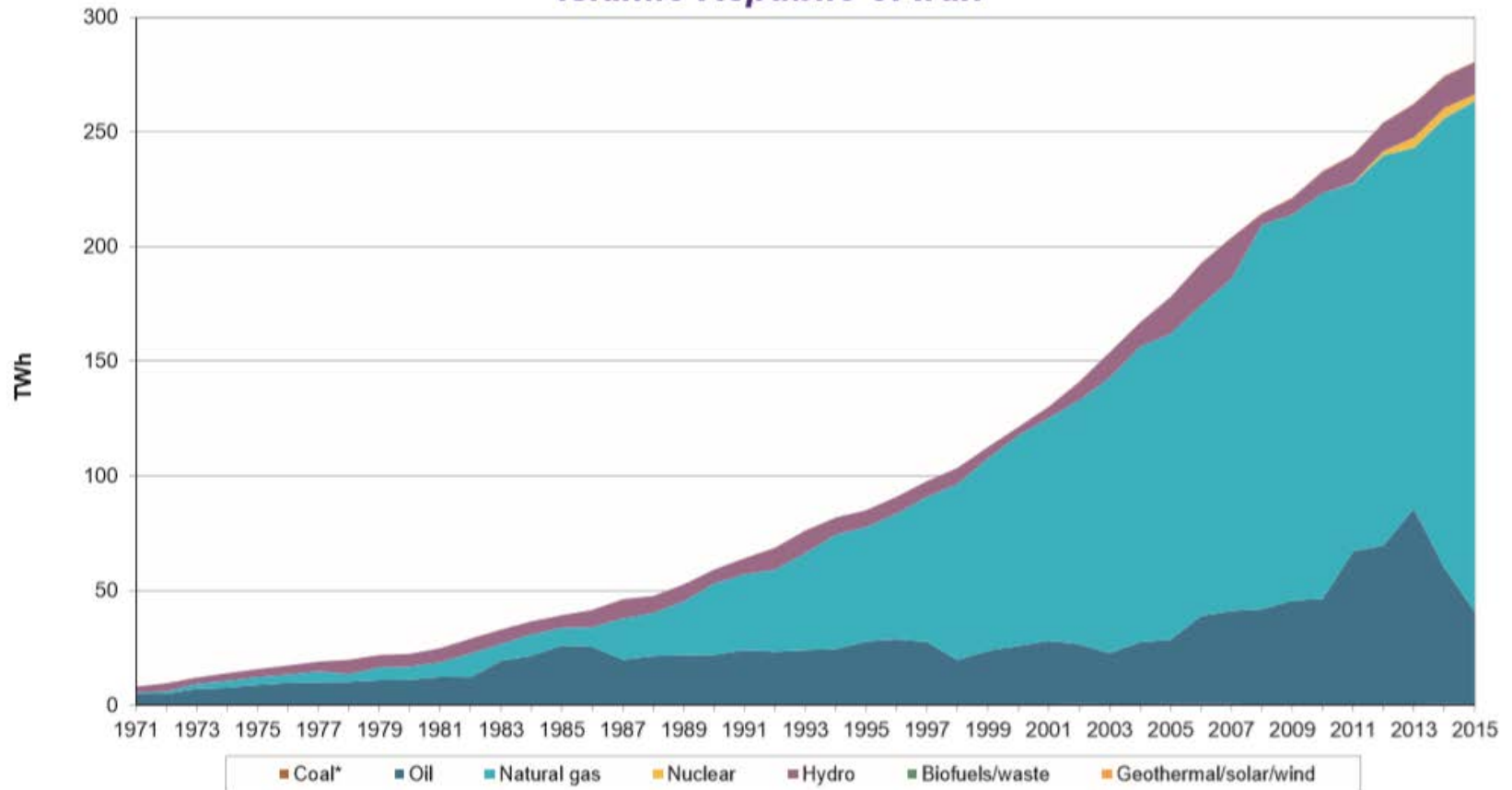
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# Where Does Iran Get Its Electricity?



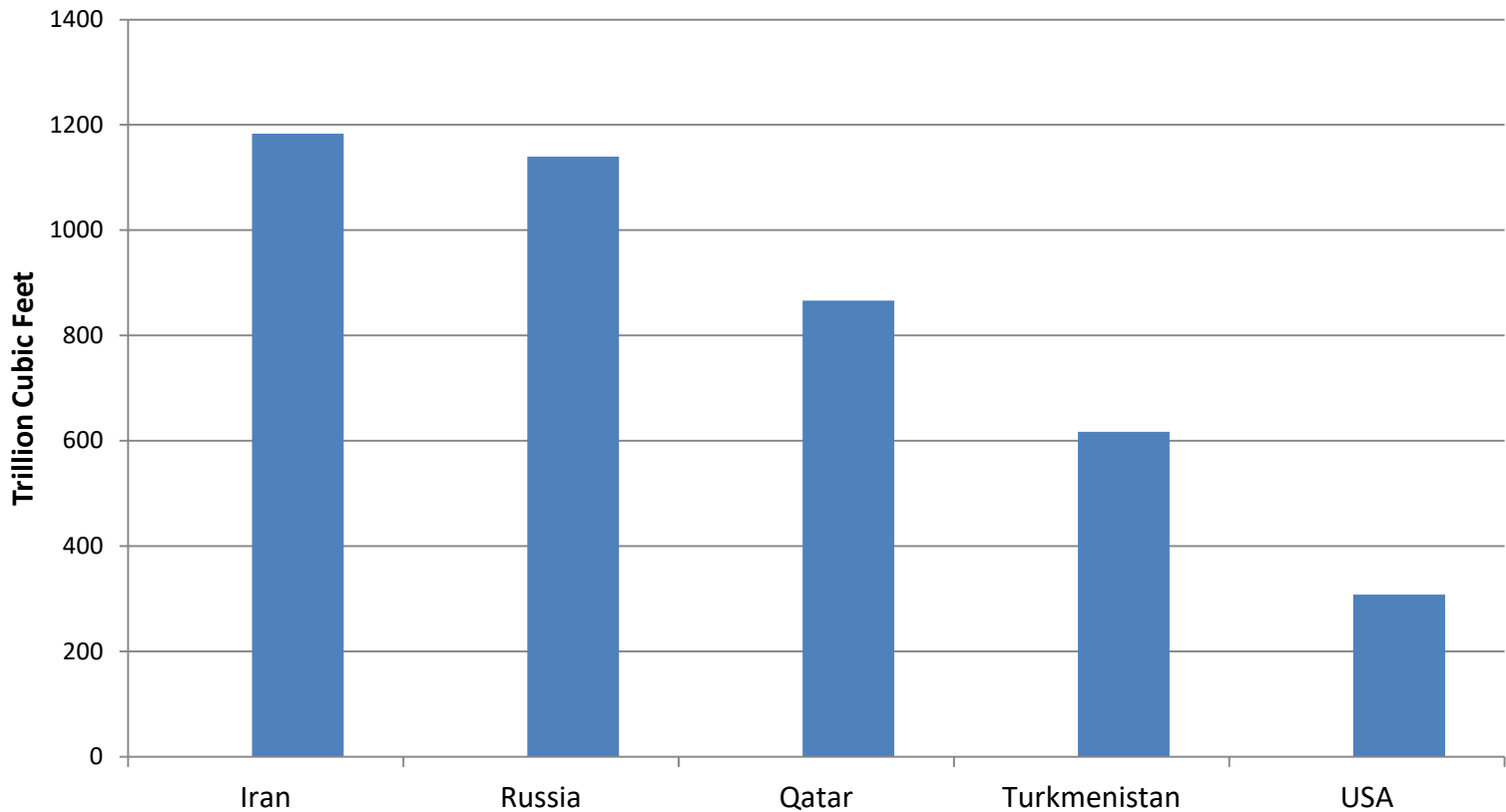
Electricity generation by fuel  
*Islamic Republic of Iran*



\* In this graph, peat and oil shale are aggregated with coal, when relevant.

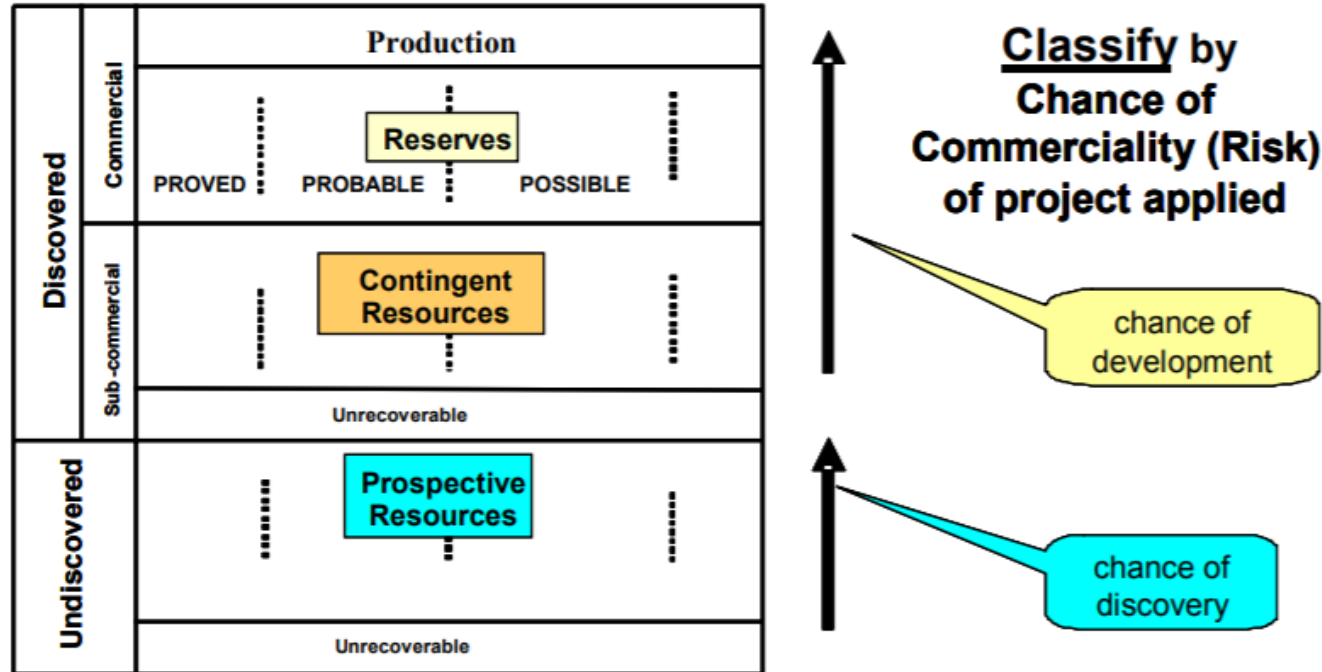
# Iran's League-Leading Gas Reserves

***Global Natural Gas Proved Reserves - 2016***



Source: 2017 BP Statistical Review of Energy

# What Does “Proved Reserves” Mean?

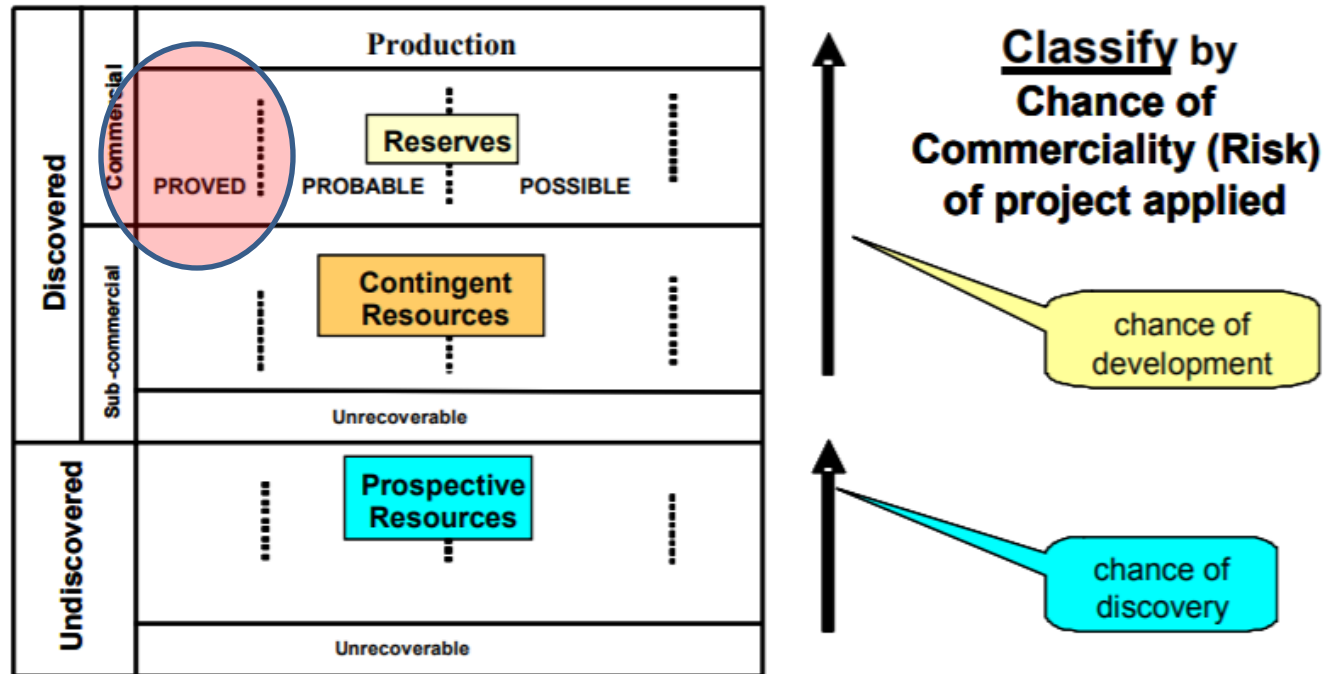


Categorize based primarily on technical uncertainty of sales quantities associated with a project



Source: Society of Petroleum Engineers

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# Iran's Excellent Solar Resource

Annual Solar Irradiance, Peak-Sun Hours

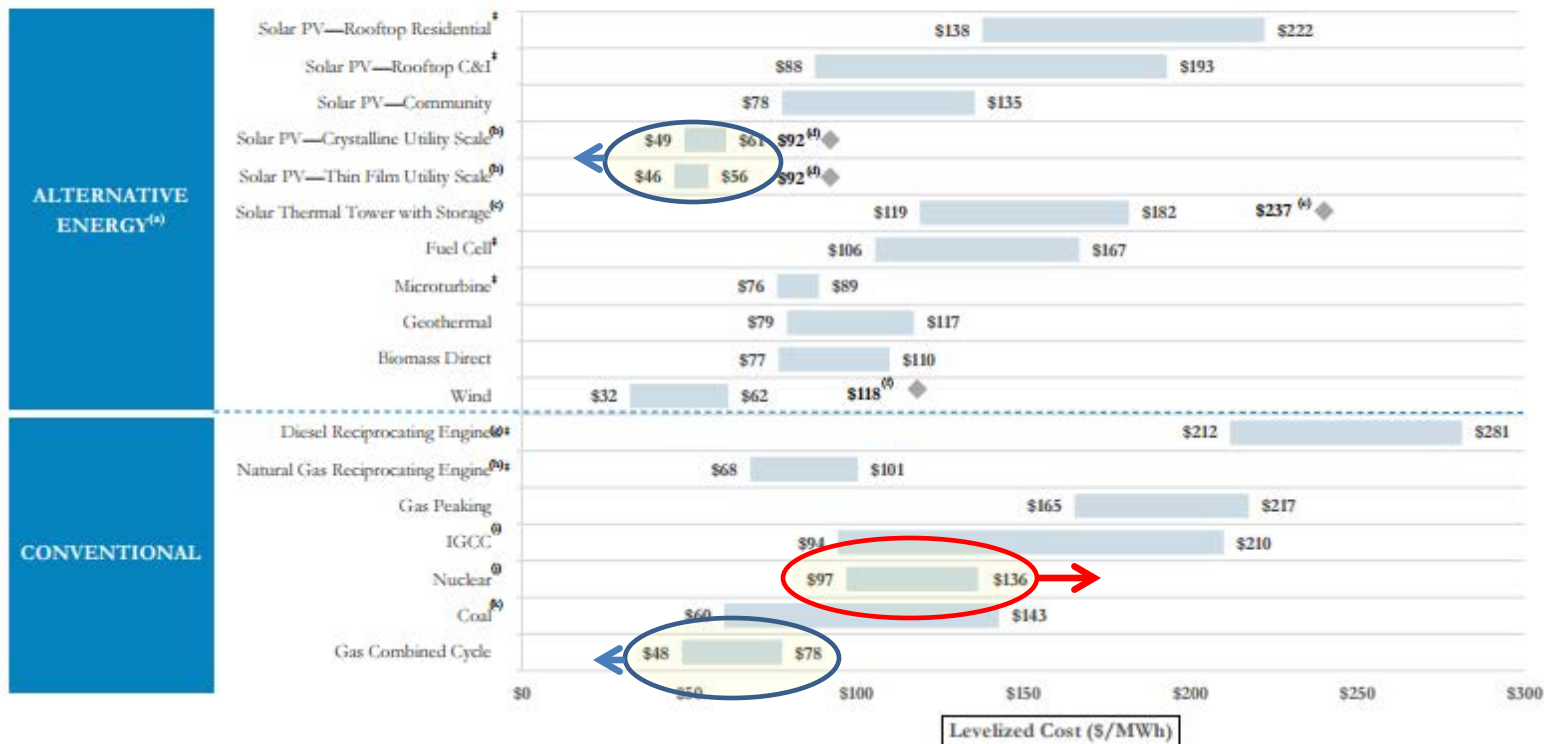


Source: NASA SSE GIS

# Cost of Energy in Iran Context

## Unsubsidized Levelized Cost of Energy Comparison

Certain Alternative Energy generation technologies are cost-competitive with conventional generation technologies under some scenarios; such observation does not take into account potential social and environmental externalities (e.g., social costs of distributed generation, environmental consequences of certain conventional generation technologies, etc.), reliability or intermittency-related considerations (e.g., transmission and back-up generation costs associated with certain Alternative Energy technologies)



Source: Lazard “Levelized Cost of Energy Analysis - Version 10.0”