

Harrison Power Climate Change Risk Assessment

OWNER/CLIENT

EmberClear (a subsidiary of Ember Partners LP)

LOCATION

Cadiz, OH

CEC SERVICES

Climate Change Risk Assessment

OWNER OBJECTIVE

EmberClear has been developing natural gas power projects since 2003. It collaborates through joint ventures with public and private multi-owner entities to bring energy projects to market.

The Harrison Power project will be a 1,085-MW natural gas and hydrogen-capable combined-cycle power plant (NGCC) in Harrison County, Ohio. [CEC staff have been working with EmberClear on the Harrison Power project since 2016.](#) As an element of the Independent Engineer's report to be prepared for financing, EmberClear sought CEC's assistance with the Climate Change Risk Assessment (CCRA). The CCRA is needed as input to the evaluation of potential risks associated with the project. This qualitative evaluation is intended to highlight potential societal and environmental risks to the project that may occur as a consequence of climate change impacts.

CEC APPROACH

The Independent Engineer advised that guidance published by the Equator Principles (a risk management framework adopted by financial institutions for determining, assessing, and managing environmental and social risk in projects) should be used. CEC's climate change leader was already familiar with other guidance developed by the Task Force on Climate-Related Financial Disclosures (TCFD) that the Equator Principles relied heavily upon.

CEC developed a framework for the CCRA based on TCFD recommendations. The assessment considered "transitional" risks (those associated with possible societal responses to climate change such as public policy and legal actions and market competition from lower-carbon energy sources) as well as "physical" risks (such as increased air temperature and water scarcity) that could impact the financial performance of the facility. Once potential risks were characterized, EmberClear's plans and policies for managing the risks were discussed and presented along with an opinion regarding the compatibility of the project with current national climate commitments.

The CCRA enabled EmberClear to demonstrate to prospective investors that it has designed a state-of-the-art facility that faces low risk relative to potential climate [change](#)-related impacts. The Harrison Power facility is scheduled to commence construction in 2021 with full operation planned by 2024.