



# INTRODUCTION TO DE-CARBONIZATION AND ENERGY EFFICIENCY TECHNOLOGY

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## REFORMING EMERGENCY BLOW-DOWN SYSTEM (FLARE NETWORK)

### *Project Description:*

The proposed project is to reform the traditional emergency relief blowdown system.

The current industrial practices are designed and operate as per API 520/521, this system is considered very sensitive and critical for the plant operations reliability. However, the latest technologies when deployed will offer an opportunity to optimize the relief system.

The proposed optimization/revamping will lead to the recovery of the valuable material which otherwise ends up to the flare tip and therefore reduces environmental emissions.

Industrial blow-down events happen due to an emergency, maintenance, leakage, or start-up and shutdown, which fluctuates the flame size almost throughout the year. Such events draw the attention of local communities and regulatory authorities and that needs lots of effort in communicating timely manner. Sometimes an event happens before the planned communications and may cause trouble for the facility due to adverse actions of the regulatory.

Deployment of this technology will allow recovering of the unplanned and emergency vented resources. This will improve the overall economics of the facility, enforce trust and confidence among the surrounding communities and regulatory system as well as help the environment by avoiding unnecessary emissions.

### *Technology:*

The proposed project (shall be disclosed as per the request from the interested client) integrates the latest technologies to fulfill the objectives.

However, to implement the proposed process, it may need revamping the current configuration. It may also need additional investment in terms of equipment and control system changes. Since it involves a change in relief system practices, there may be regulatory approval required.

### *Opportunity:*

This process/technology offers an opportunity to adopt more practical industrial operating practices in an effort to complete decarbonization. It can be implemented safely with zero risk tolerance.

***Environmental Benefits:*** Significant reduction in GHG emission can be achieved.

### *Area of application:*

- OilSands  
(minable, thermal)
- Upgrader
- Petrochemicals
- Refinery
- Fertilizers
- Gas Processing
- LNG