

## Sustainable Mobility Study of the Jorf Lasfar OCP industrial site – Pilot project for green buses

Contact  
**Vinciane WAUTERS**  
vinciane.wauters@tractebel.engie.com  
www.tractebel-engie.com  
Tel.



**Client:** OCP (Office chérifien des phosphates) –  
Engie Solutions North Africa  
**Country:** Morocco  
**Date/Period:** 2019 - 2020

### PROJECT DESCRIPTION

The OCP wants to decarbonize its mobility and to start with a pilot project in the industrial site of Jorf Lasfar (2000ha & 5000 employees). The OCP is responsible for the employee's transport to and from the site through a fleet of 90 buses. The aim of the study is to help together with Engie the OCP to implement a green mobility starting with electric buses. In this context, Tractebel has performed the following missions;

- Sizing of the mobility needs,
- Benchmarking of the green mobility options and the green technologies,
- Potential for shared mobility analysis,
- Calculate demand for charging stations for the buses,
- Calculating energy consumption
- Sizing of the pilot
- Develop the business model for Engie and the OCP

### COMPETENCES INVOLVED

- Mobility planning
- GIS
- Modeling
- Green mobility
- Energy demand for mobility
- Fleet management

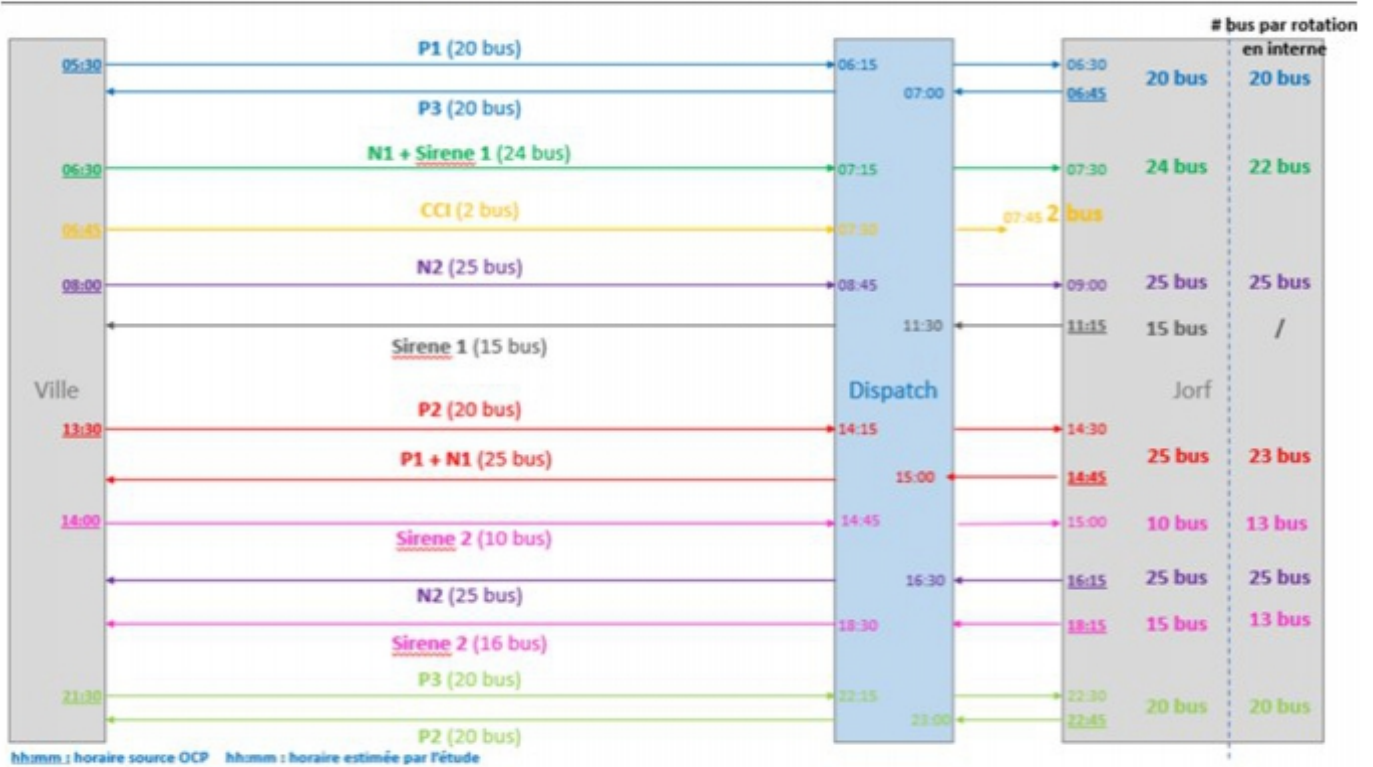
### SERVICES PROVIDED

The mission is divided in several phases;

- Analysis of the as is situation including the internal mobility in Jorf Lasfar and the mobility to and from the site. A focus was done on the employees' mobility by buses and the daily movements of the employees in the industrial site. Tractebel has performed a deep dive analysis on the time schedule of the displacements, the operation, and the success of the organized transportation. In parallel, a benchmark of green solutions and green infrastructures helped to identify the opportunity for green mobility
- Together with the clients and in line with the foreseen opportunities, we have defined the objectives to reach in short and long term.
- Scenarios development to reach the objectives. A Swot analysis followed by a multicriteria analysis had allowed to choose the best scenario.
- Sizing of the chosen scenario in terms of type and number of vehicles, operation, infrastructures and charging stations, energy demand. Calculation of the CAPEX & OPEX including operational and maintenance costs.
- Support for the implementation of the low-carbon fleet



## Sustainable Mobility Study of the Jorf Lasfar OCP industrial site – Pilot project for green buses



### Vos Attentes

- Améliorer la performance énergétique. Réduire votre empreinte Carbone
- Améliorer la productivité du transport. Garantir la disponibilité et la fiabilité du transport mais à la disposition des employés.
- Préserver le mode de transport du site. Se protéger contre la hausse des prix du Fuel.
- Participer au plan national de la transition énergétique et se positionner en tant qu'entreprise socialement responsable.
- Améliorer la sécurité du site.

### Notre Proposition de Valeur



### Nos Solutions

- Analyser, étudier les flux des employés et envisager sur le périmètre et le budget d'un nouveau mode de transport.
- S'engager sur le performance, la disponibilité et la qualité du transport mis en place.
- Construire et apporter une approche intégrée des besoins liés au transport du site.
- Proposer des solutions innovantes et durables.
- Accompagner OCP sur les évolutions réglementaires et technologiques.

