

OptiFeed Controller

IIOT 4.0 for Fish and Shrimp Feed Manufacturing Line



Leading Fish Feed and Shrimp Feed Manufacturers are Saving Crores Every Year Using Optify's Advanced Controls

Let Us Improve Profitability and Productivity at Your Factory!



Designed For Fluctuating Operating Conditions & Easy Adoption

Consistent Quality | Increased Productivity | Great Energy Saving | Meaningful Insights & Reports

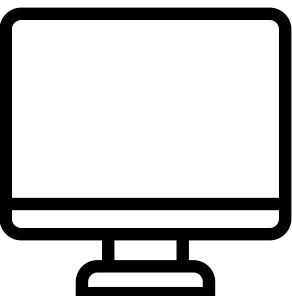
What does OptiFeed Controller Do?

Utilites Fluctuations
Ambient Weather Change
Productivity Fluctuations
Raw Material Fluctuations
Composition Changes
Inlet Pellet Moisture
Feed Screw (TPH)
Line Start / Stop / Pause

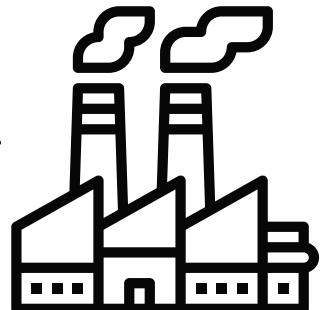


Human Operator
Decides Setpoints with Excess Margins

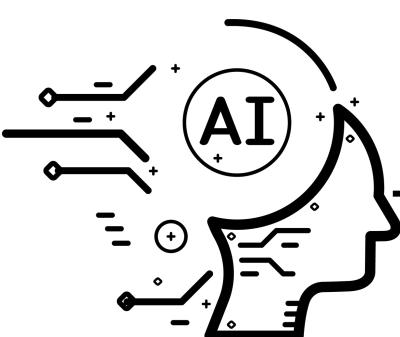
Current Operations



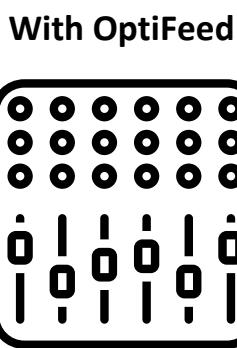
Setpoints Fed to SCADA System



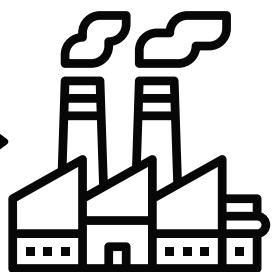
Production Line Follows Through the Setpoint
Determined by Human Operator



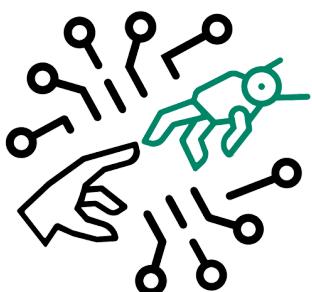
OptiFeed Algorithm
Determines Best Setpoints



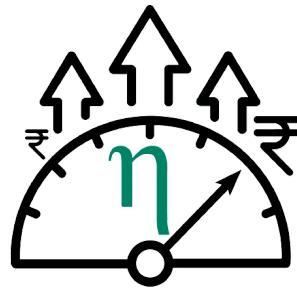
Setpoints Given to OptiFeed
Controller



Optimum Operation of
Production Line



Increased productivity and reduced
operator fatigue made possible
by Ai-Technology

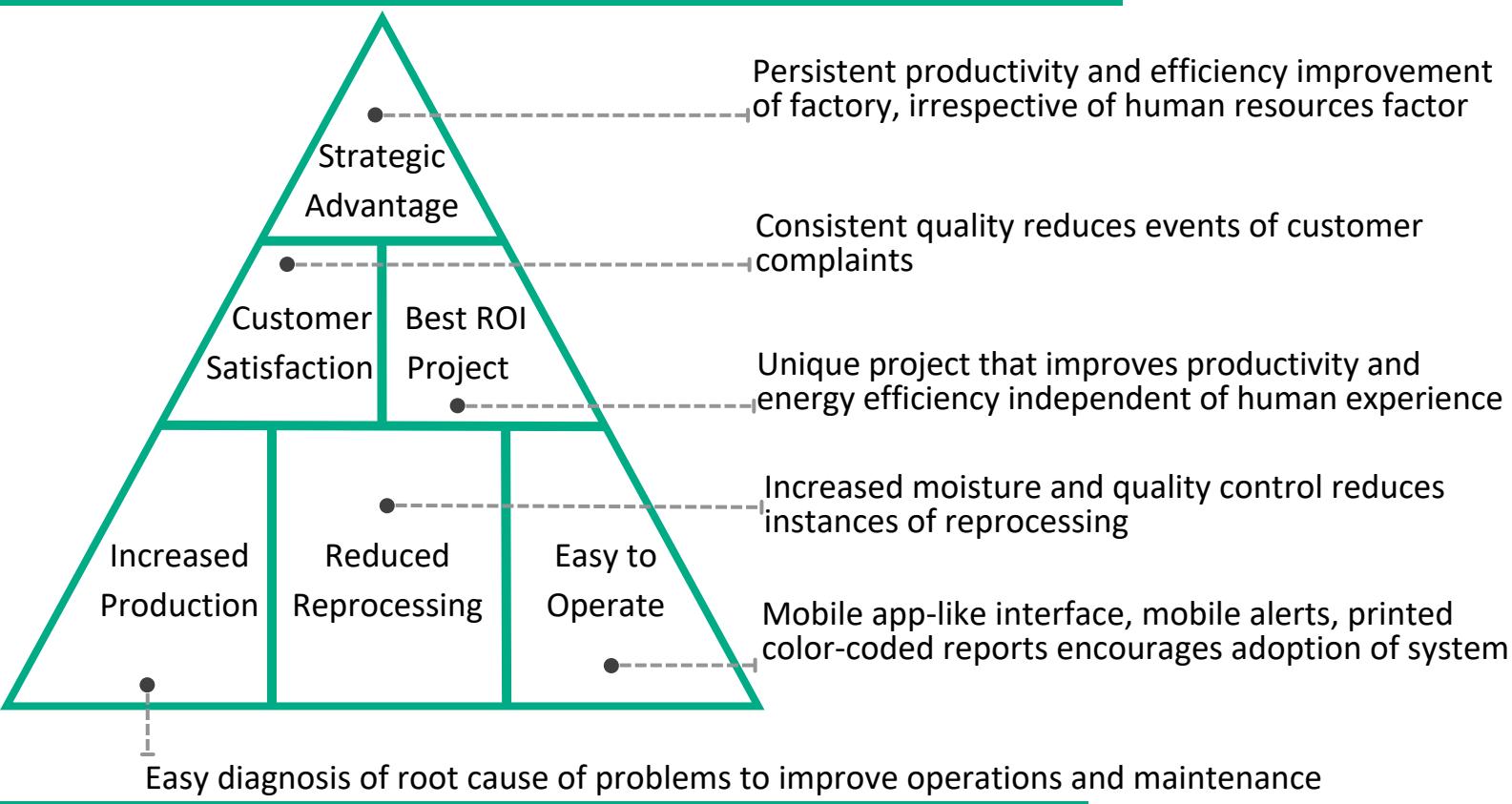


Higher profitability made possible by
increasing productivity and efficiency

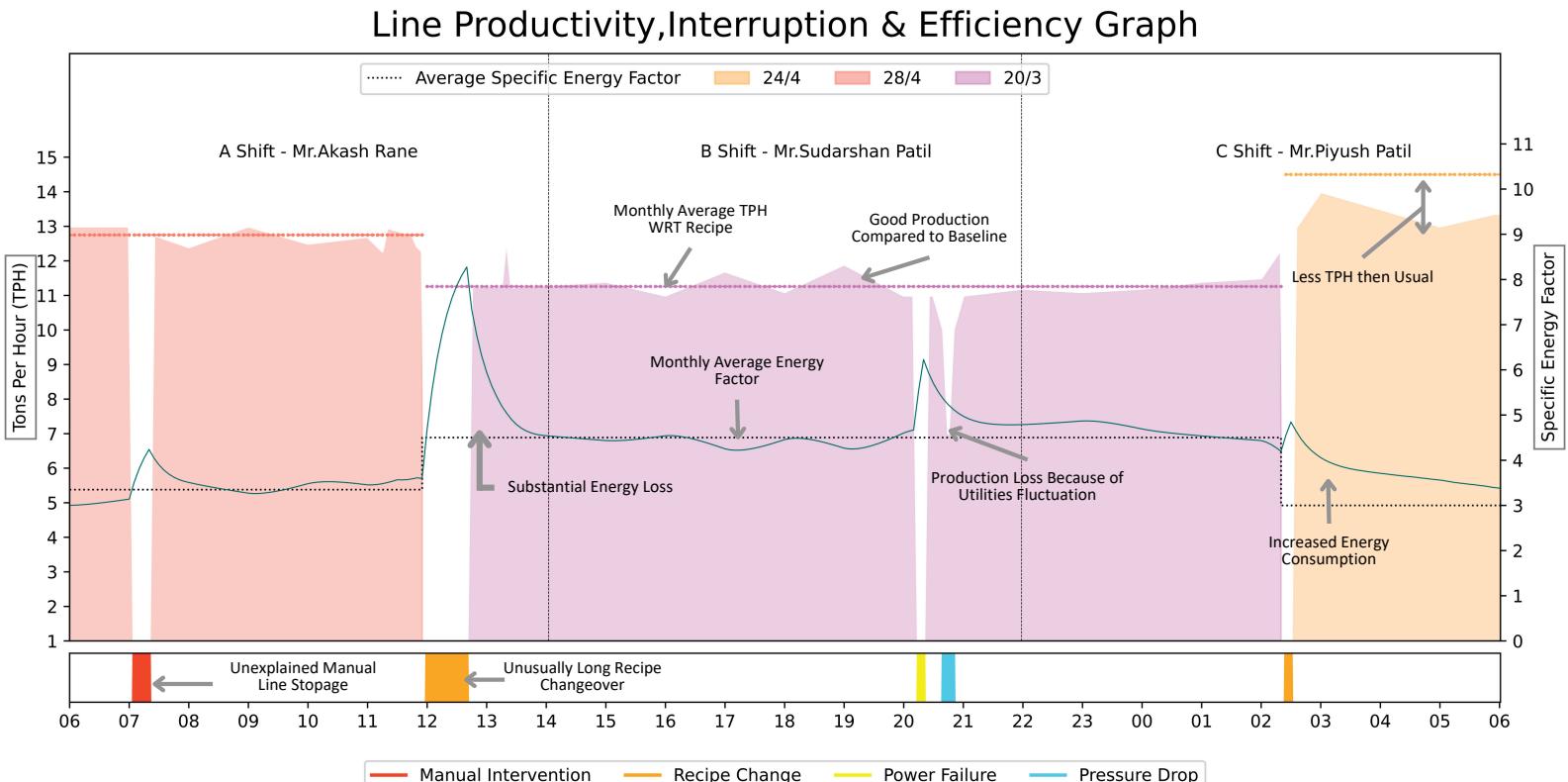


Autonomous data analytics and
reports for tracking improvements
in the production line

OptiFeed Caters Management, Operations and Production Team



OptiFeed's Daily Compound Graphs Convey Important Insights Easily



- Other graphs available - Moisture distribution, Interruption and productivity loss analysis, Zone wise energy efficiency analysis, Weekly and monthly productivity drift.

OptiFeed (Shrimp) Testimonial



CPF (INDIA) PRIVATE LIMITED

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East Godavari (Dist) - 533 435, Rajahmundry, Andhra Pradesh, INDIA.
Tel : 08922 - 25891 / 258492 / 258493 / 258494
Fax : 08922 258404 / 258405
Email : cpaqua@cp-india.com
Website : www.cp-india.com

Date: 20 April 2022
Rajahmundry, AP, India

Subject: Optify Dryer + Cooler Optimization and Control System Performance

Dear Sir,

This is to congratulate Optify team regarding the good performance of their shrimp feed dryer + cooler optimization and control system on Line 1 of CPF Rajahmundry plant.

The Optify system is fully autonomous and operates without requiring human judgement in normal operations.

In the **1-week demonstration period** from 24 March 2022 to 30 March 2022 (148 hourly lab samples), the following results were observed:

- **Average moisture - above 10.6%**
- **Standard deviation - below 0.4%.**
- **40% reduction in standard deviation** compared to the previous 1-month SCADA mode operation
- 3x reduction in the high moisture instances (above 11.1%)
- 5x reduction in moisture swings (>1% difference within 1 hour)
- 3x reduction in continuous high moisture instances (>11.1% for 2 hours)
- 100% avoidance of continuous very high moisture instances (>11.4% for 2 hours)

We are happy with the system's performance. We shall be planning for further expansion of more systems from Optify Industrial Solutions Pvt. Ltd.

We wish Optify team the best in their future endeavor.

Best regards

A handwritten signature in blue ink, appearing to read "Mr. Thossaphorn Chatpong". The signature is fluid and cursive, with a large, stylized initial "M" and "T".

Mr. Thossaphorn Chatpong
Department Manager
Production Improvement & Innovation Center - India
CPF (India) Private Limited

OptiFeed (Fish) increases moisture by 1% and saves energy

The following graph includes all the data points from inprocess lab without any exclusions. This includes line startup, extruder start and stop as well.

Moisture Histogram

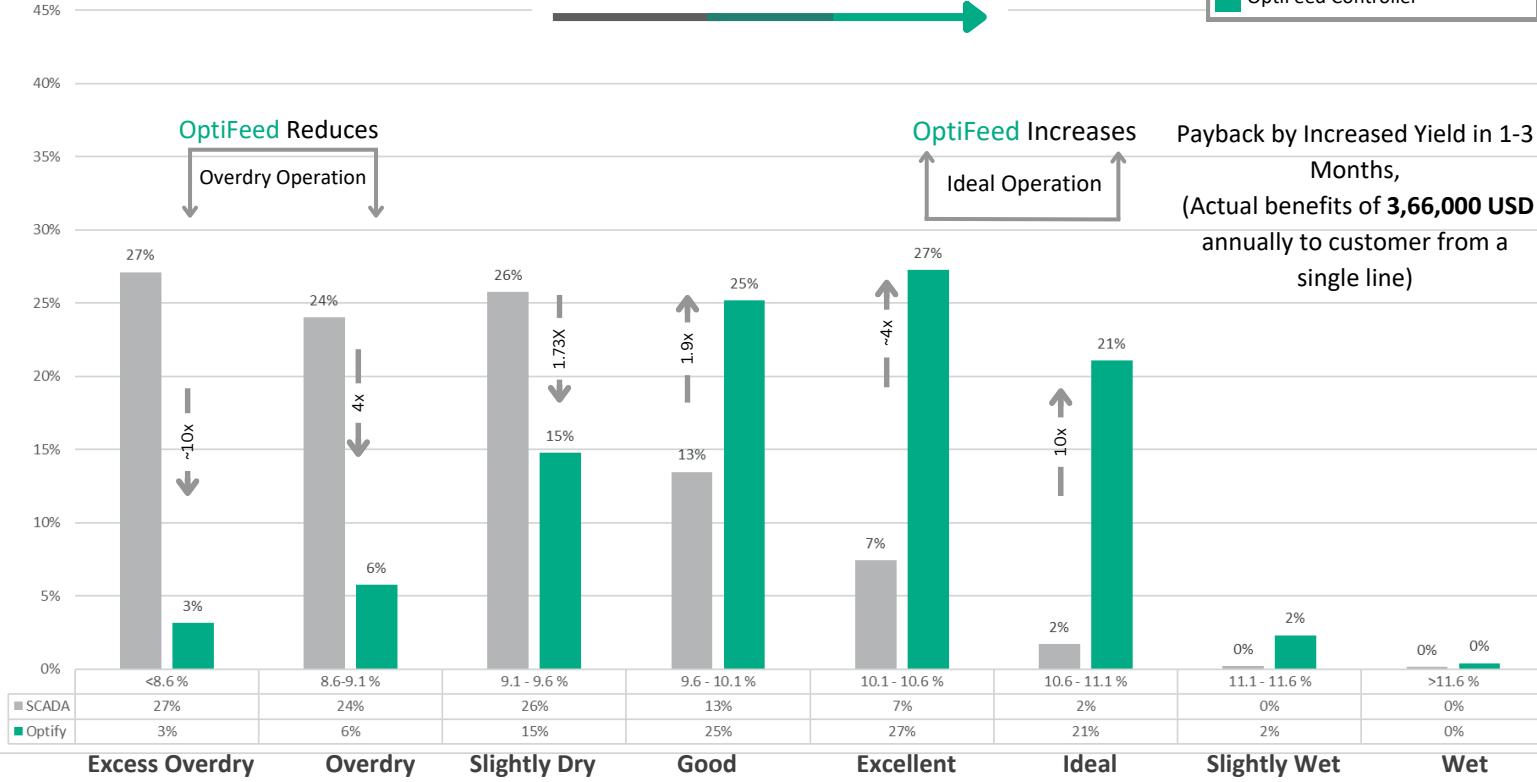
1% Increased Yield

Competitor's Moisture Controller
OptiFeed Controller

OptiFeed Reduces
Overdry Operation

OptiFeed Increases
Ideal Operation

Payback by Increased Yield in 1-3 Months,
(Actual benefits of **3,66,000 USD**
annually to customer from a
single line)



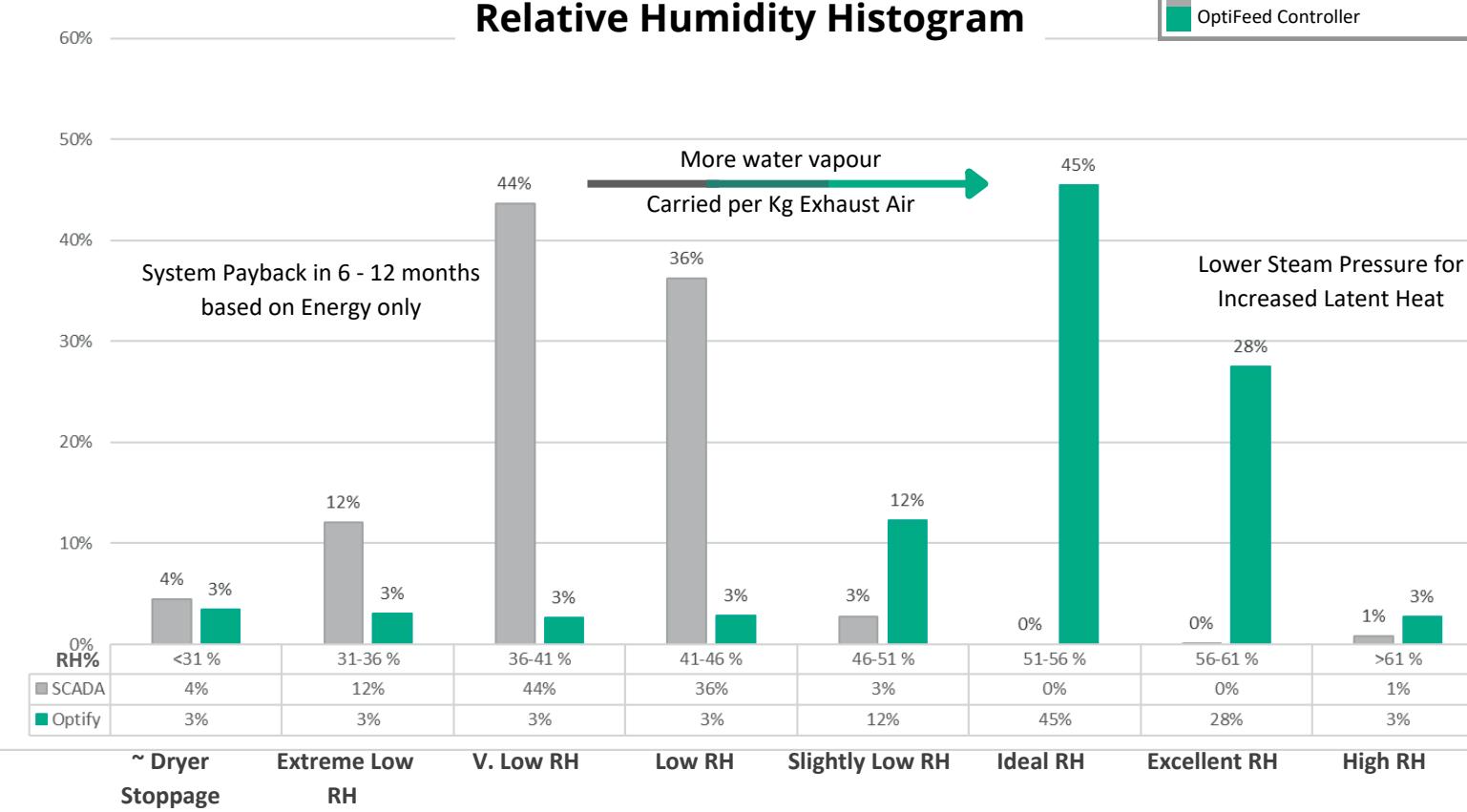
Relative Humidity Histogram

Competitor's Moisture Controller
OptiFeed Controller

System Payback in 6 - 12 months
based on Energy only

More water vapour
Carried per Kg Exhaust Air

Lower Steam Pressure for
Increased Latent Heat



Optify's Early Customers

India's Top Fish Feed
Manufacture's
360 TPD Dryer

OptiFeed (Fish)



OptiFeed (Shrimp)

Repeat Orders from same plant and new orders from same group plants at different location under processing!

Optify's Investors & Supporters

- Winners of fisheries startup grand challenge (Solutions for fisheries sector)
- Winner of chunauti 4.0 competition by STPI (for uniqueness in softwares)
- Winner of IOT innovation accelerator challenge (for innovation in use of IOT in industry)
- Supported by Nidhi Prayas Yojna by Department of science and technology

Company started and incubated under the support and mentorship provided by Sine (IIT Bombay), CIIE (IIM Ahmedabad) and CIIC Chennai



Optify Has Strong Founder's Advantage In Aquafeed Drying



- Previous experience at Forbes Marshall, with exposure to 30+ dryers
- Researched, Developed and Commissioned 3 different Optimization products before Optify.
- Thesis on industrial optimization algorithms for controls
- Designed specialized hardware and algorithms for aquafeed industry

Piyush Patil
Director & Founder

B.Tech. in Energy Engineering, IIT Bombay
M.Tech. in Energy Engineering, IIT Bombay

Next Step towards OptiFeed

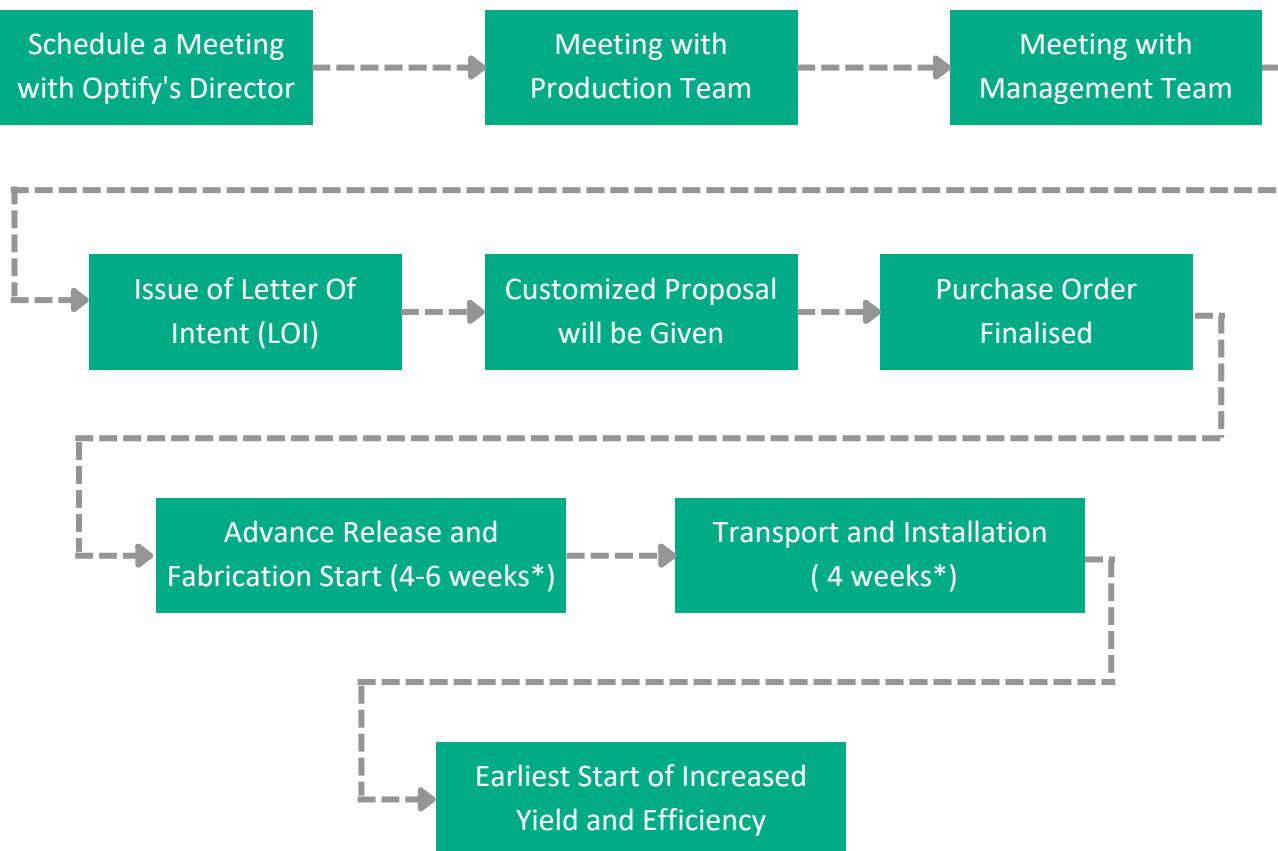
Call directly or drop an email to the director of Optify to schedule a meeting at your premises



Director & Founder

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*Attention – Orders managed based on sequence of advance payment received
Actual wait period will be communicated at the time of Purchase Order (PO) finalization

Optify Industrial Solutions Pvt. Ltd.

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CIN: U31909MH2019PTC319042 | GSTN: 27AACCO8491Q1ZI

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