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# **Title:** Development of a SCADA system for RTG cranes remote monitoring within LCTPC company at Lázaro Cárdenas Port, Michoacán, México

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# LCTPC



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# EQUIPOS PORTUARIOS

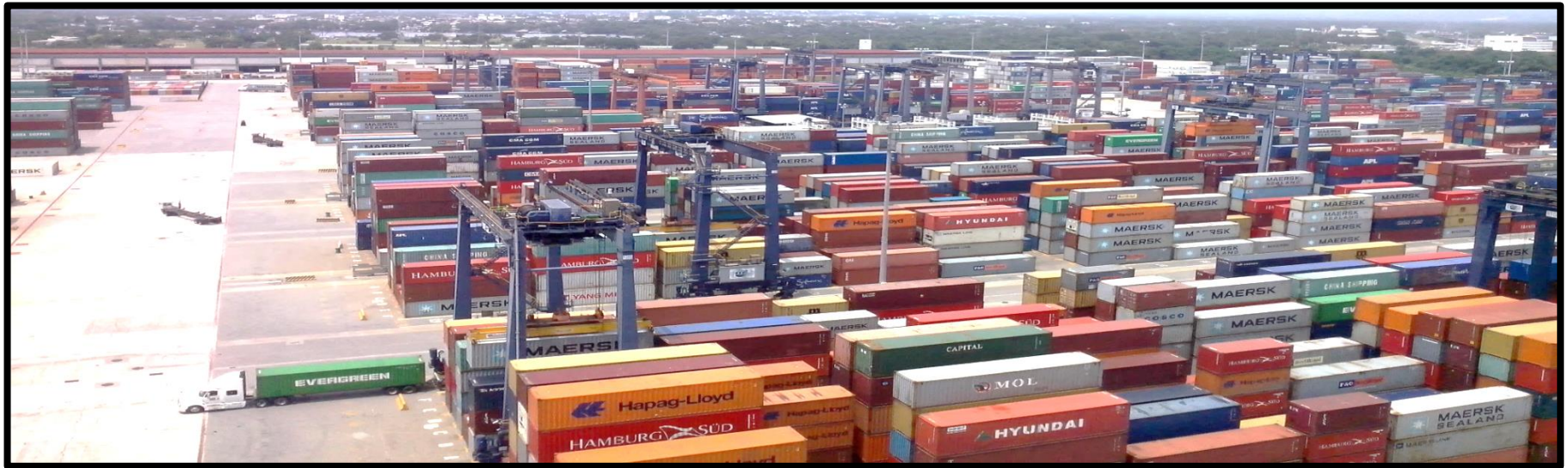


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# PROBLEMÁTICA

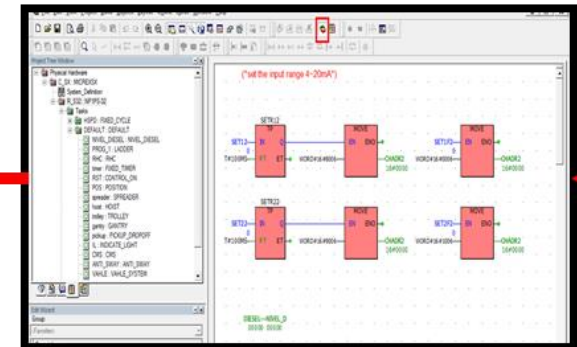
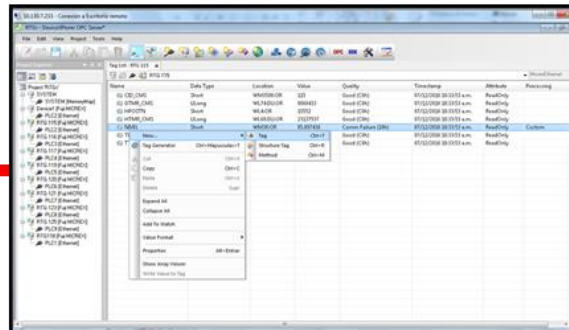
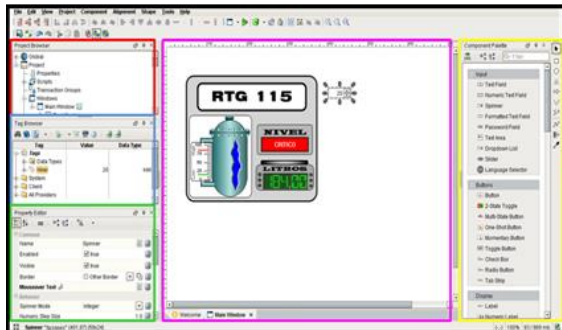
- Planeación de recarga de combustible a equipos portuarios.
- Las RTG's no tienen ubicación específica.
- El personal pierde tiempo efectivo.
- Planeación y recarga en diferentes turnos.





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# DIAGRAMA DE PROCESO



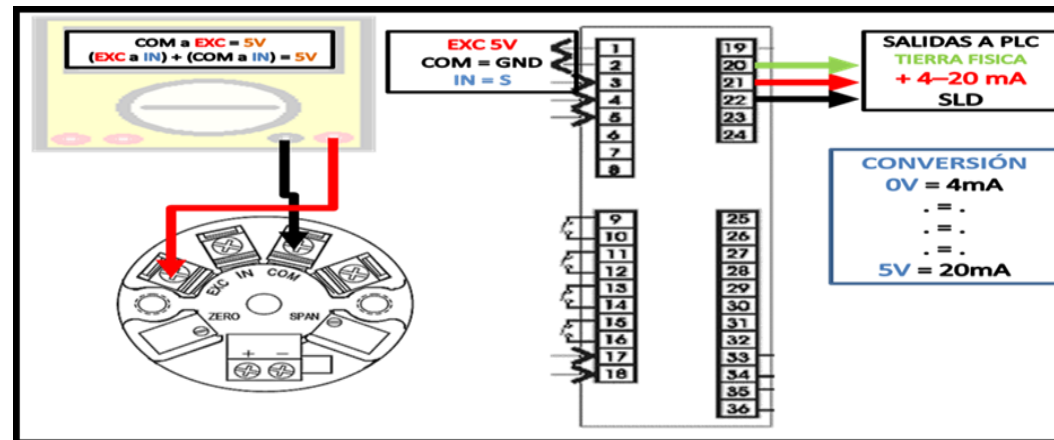
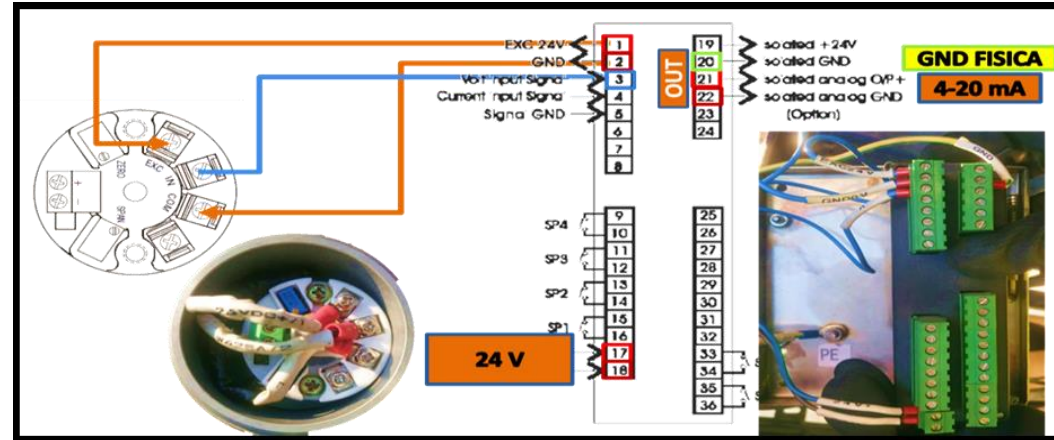
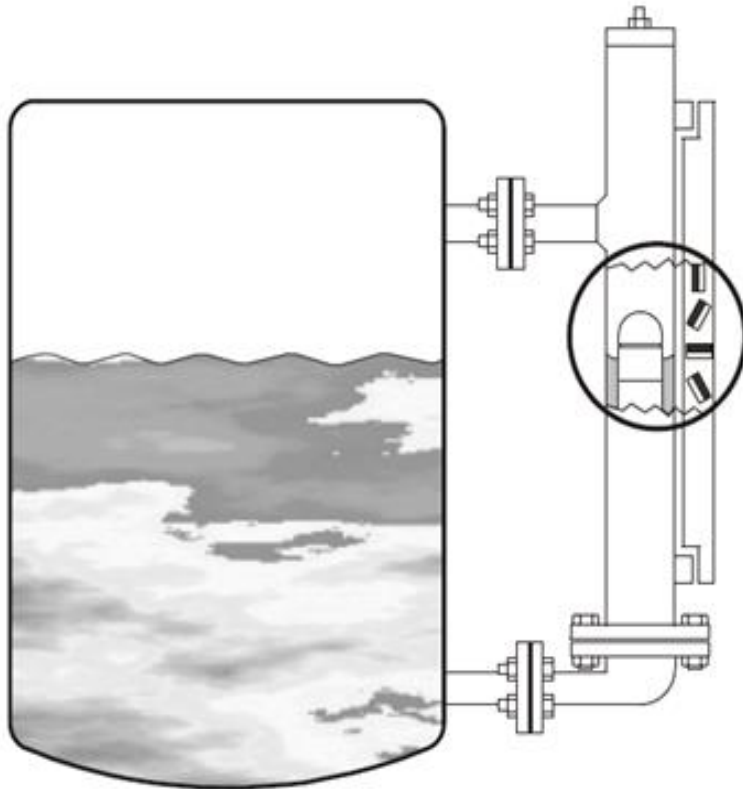
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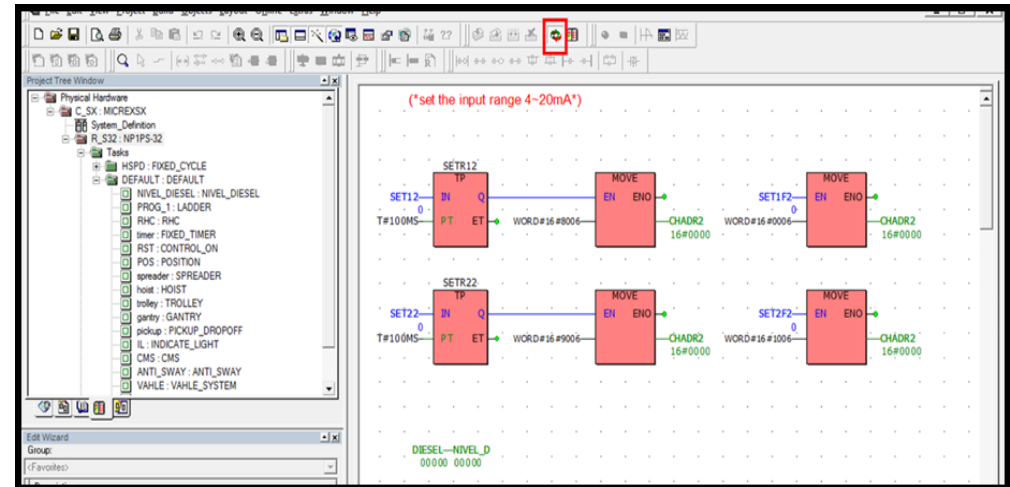
# RTG



# NIVEL



# PLC FUJII







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# PLATAFORMA EN IGNITION



Monitoreo De Diesel De Las Grúas RTG

RTG 102

LITROS  
920

NIVEL  
LLENO

RTG 105

LITROS  
920.00

NIVEL  
LLENO

OPC Browser

- Ignition OPC-UA Server
  - OPC Kepware
    - Takebishi
      - RTG 115
        - TTMR\_CMS
        - HTMR\_CMS
        - CID\_CMS
        - NIVEL
        - TL\_CMS
        - GTMR\_CMS
        - HPOSTN
      - RTG 116
      - RTG 117
      - RTG 119
      - RTG 120
      - RTG 121
      - RTG 125
      - RTG 118
      - SYSTEM

Property Editor

Show Value  false

Show Percentage  true

Value Format ###0

Percent Format ###0%

Orientation Bottom to Top

Filled Color 0,217,0

Background Color 170,170

Gradient  true

Liquid Waves  true

Level Indicator "Level Indicator" (74,17) [33x113]



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# RESULTADOS OBTENIDOS

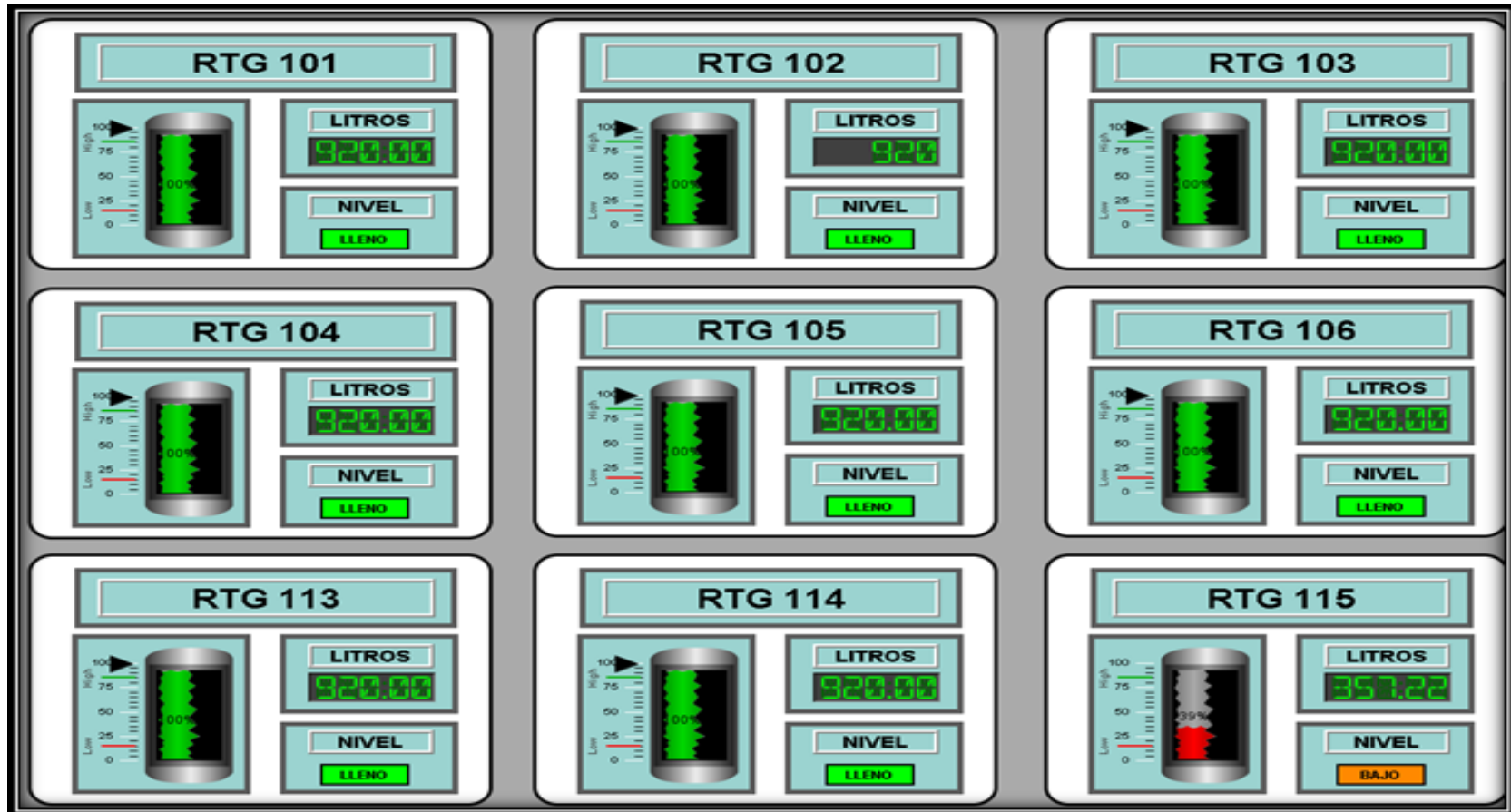


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# RESULTADOS OBTENIDOS





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