

# THE RIVER AS AN ENERGY SOURCE: SUPPLYING THE ELECTRICAL NETWORK IN THE URQUIZA PARK AREA

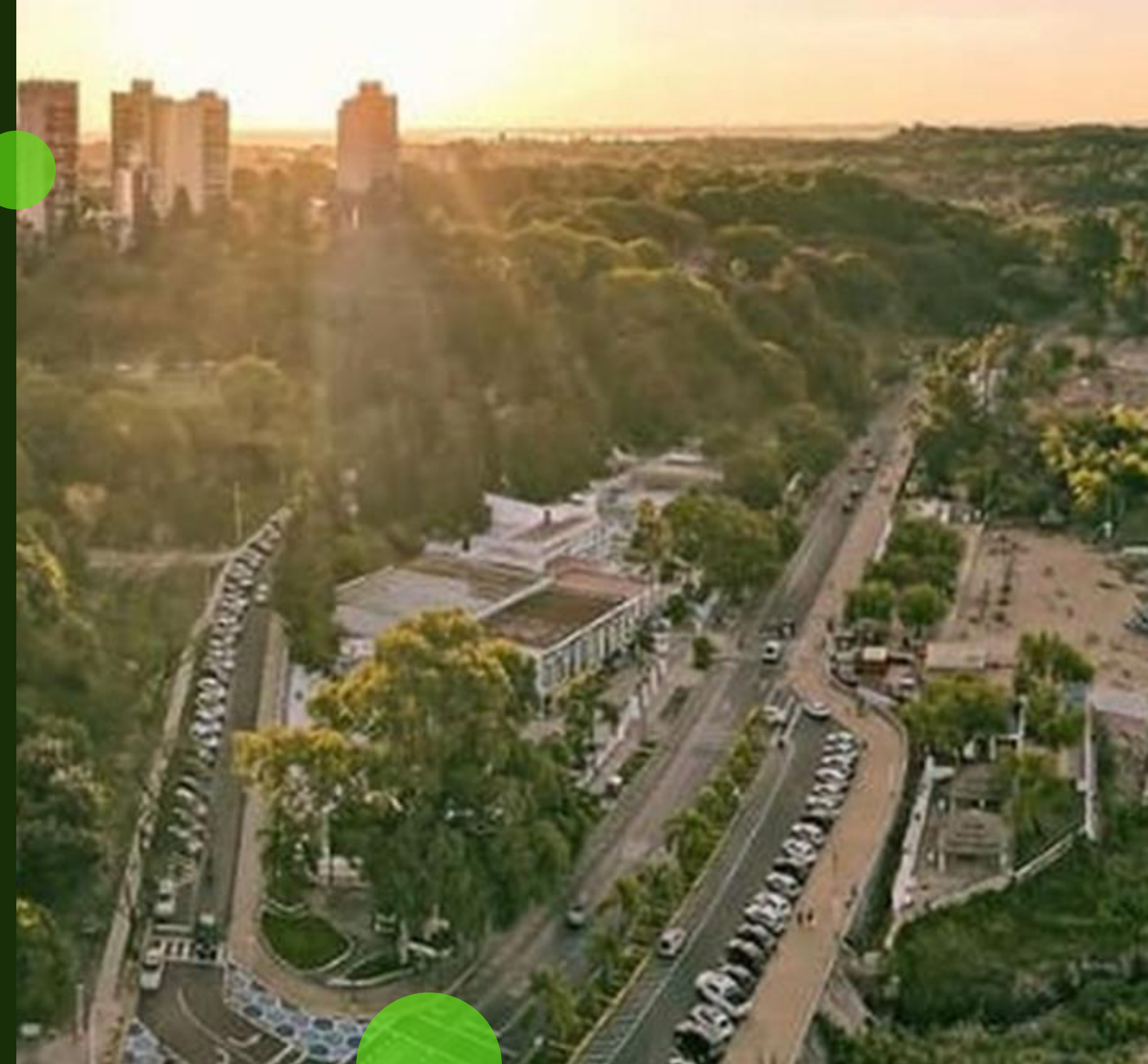
National Technological University:  
Paraná Regional School

Electromechanical Engineering  
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Inglés I

Academic Year: 2023

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- Franco Ceccato
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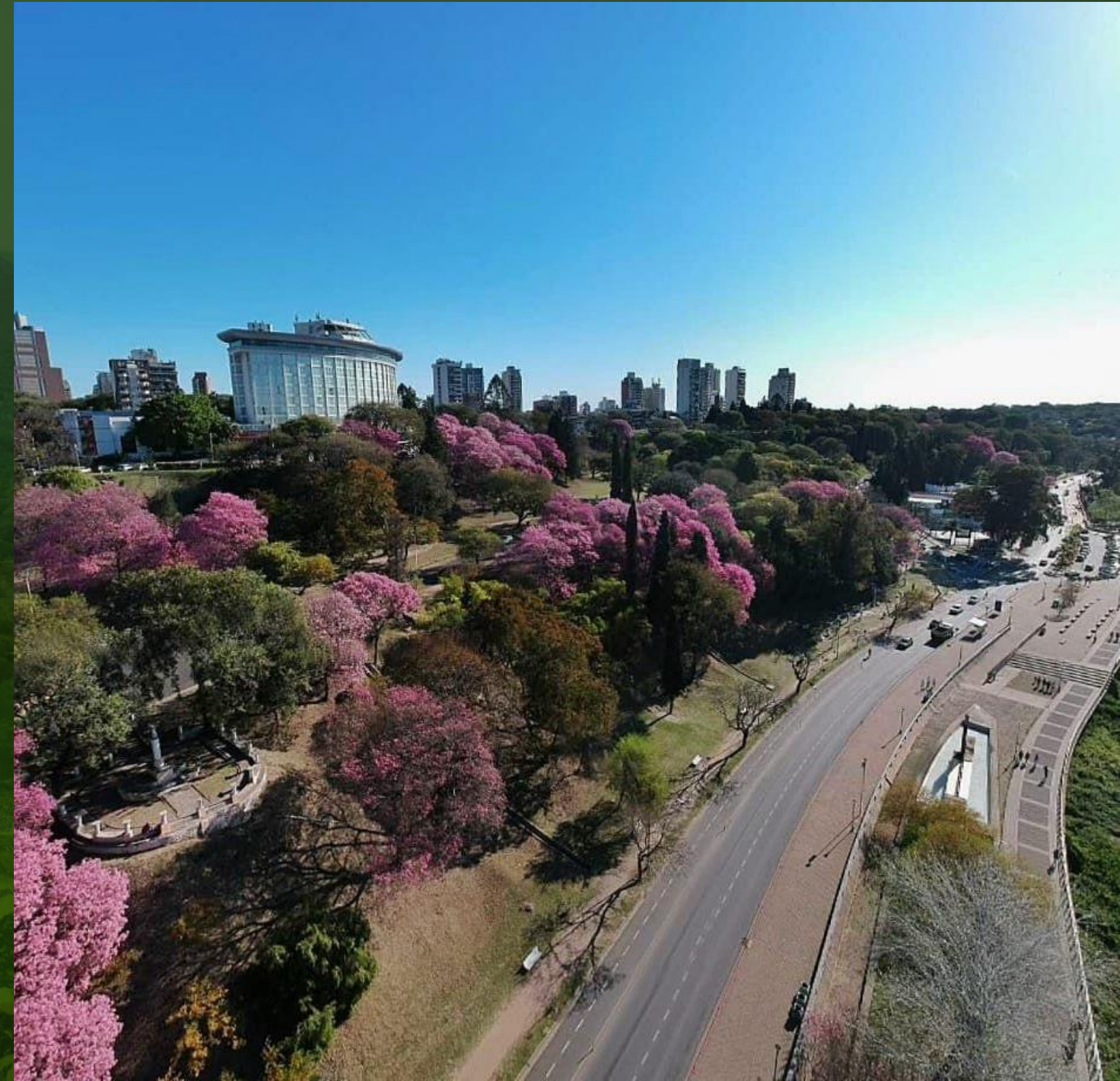
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# INTRODUCTION

Cultural recreation area:

- Physical activities
- Social meetings
- Popular events

URQUIZA PARK





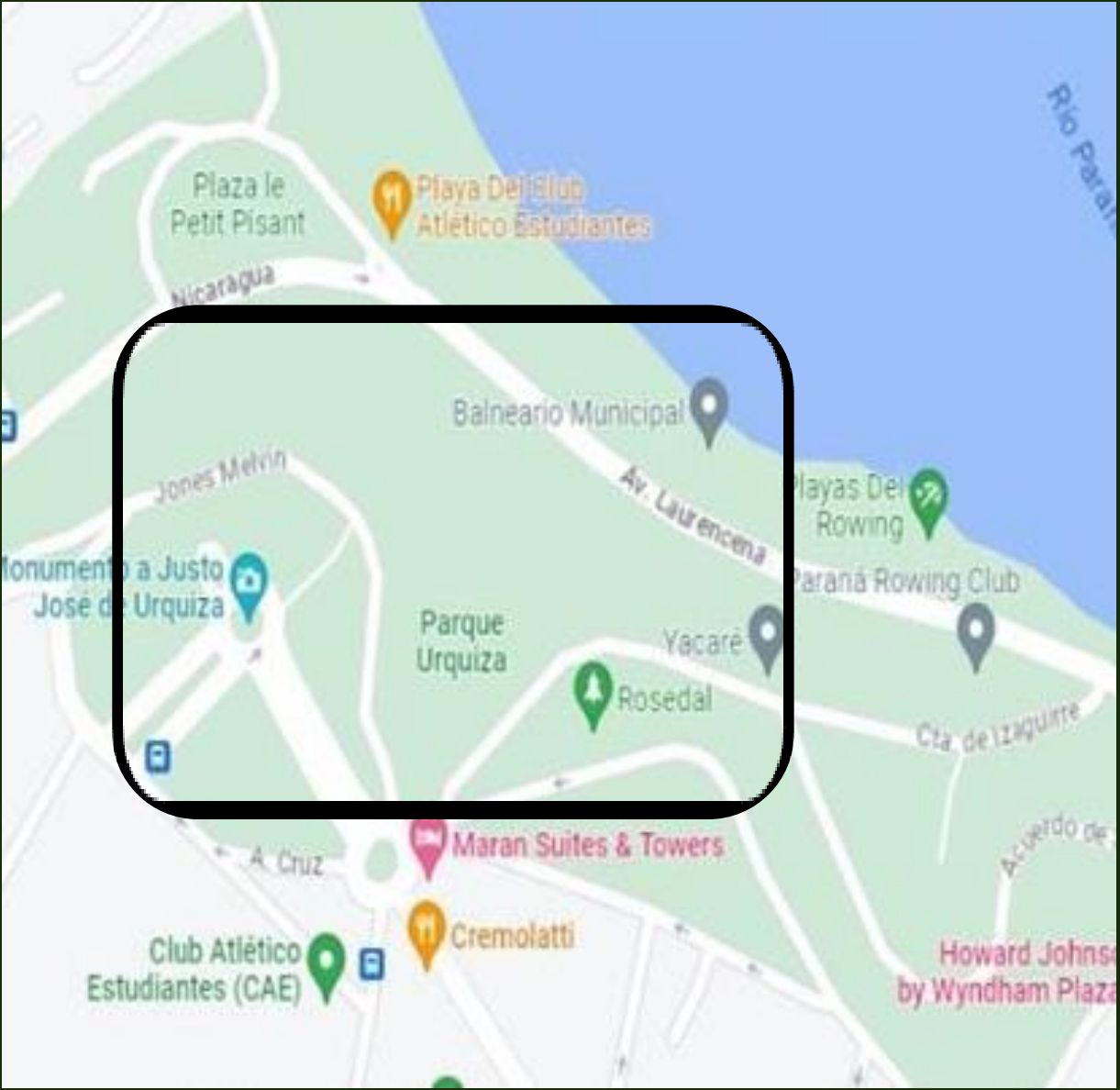
# OUR PURPOSE

- *Analyze the lack of lighting in some areas of the Urquiza Park*
- *Study the efficient management of the electrical energy consumption*
- *Find sustainable solutions with low environmental impact*

# MAP OF THE PRESENTATION

- Problem definition and analysis
  - Description of the context
  - Problem statement
  - Description of the problematic situation
  - Identification and analysis of causes that give rise to the problem
  - Identification and description of the consequences
- The Way Forward
  - Problem approach
  - Strengths and weaknesses of the proposal
- Conclusion

# DESCRIPTION OF THE CONTEXT





URQUIZA PARK

# IDEAL FOR

- Relaxing walks
- Exercising
- Enjoying a peaceful day in nature



# IDEAL FOR

- Recreational Activities for Children
- Picnic
- Family Time

RECREATIONAL AREA IN THE URQUIZA  
PARK

# PROBLEM STATEMENT

Insufficiency and inefficiency in lighting in the Urquiza Park



- Security in lighting areas

ROSEDAL WALKING AREA IN THE URQUIZA  
PARK



# PROBLEM STATEMENT



- Insufficient lighting in some areas

- Limitation of activities



- Lack of lighting poles

# CAUSES

- Lack of urban planning
- Lack of maintenance
- Lack of new electrical infrastructure

URQUIZA PARK



# CONSEQUENCES

- People gathering in the river coast
- Insecurity and criminal acts
- Use of generators

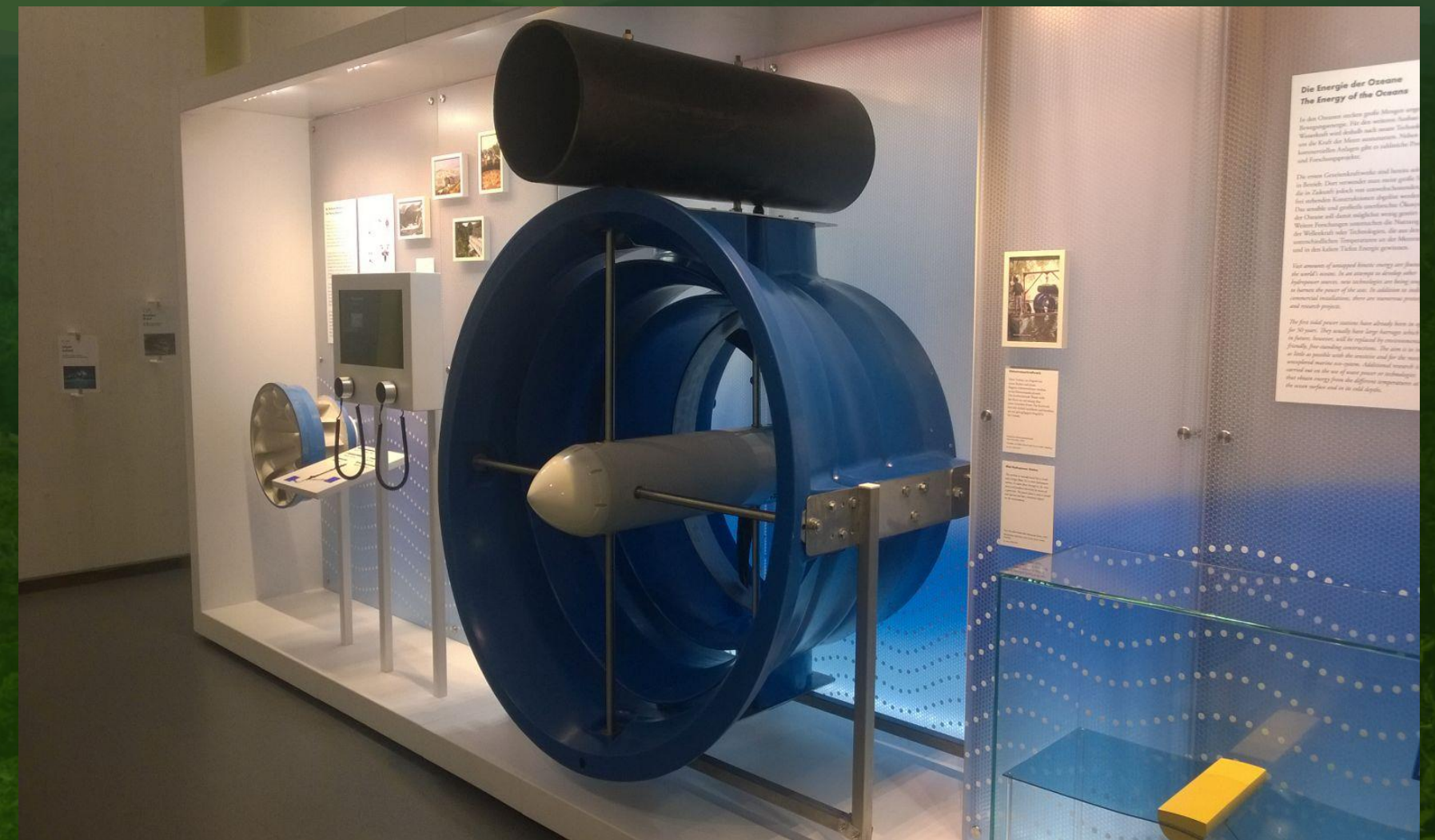
URQUIZA PARK



# PROBLEM APPROACH

## SMART MONOFLOAT TURBINE

- Installation of Smart Monofloat turbines



# STRENGTHS

- Renewable and sustainable electricity
- Low cost of infrastructure
- Minimum space
- Easy installation method

SMART MONOFLOAT TURBINE



# WEAKNESSES

## SMART MONOFLOAT TURBINE

- Damage to the marine ecosystem
- Negative environmental impact



# CONCLUSION

The Urquiza Park has a problem of insufficient and inefficient lightning.

Our proposal is to implement smart turbines as a solution to the problematic situation.

These turbines generate renewable and sustainable electricity, without harmful carbon emissions to the environment.

**Thank you for your attention**

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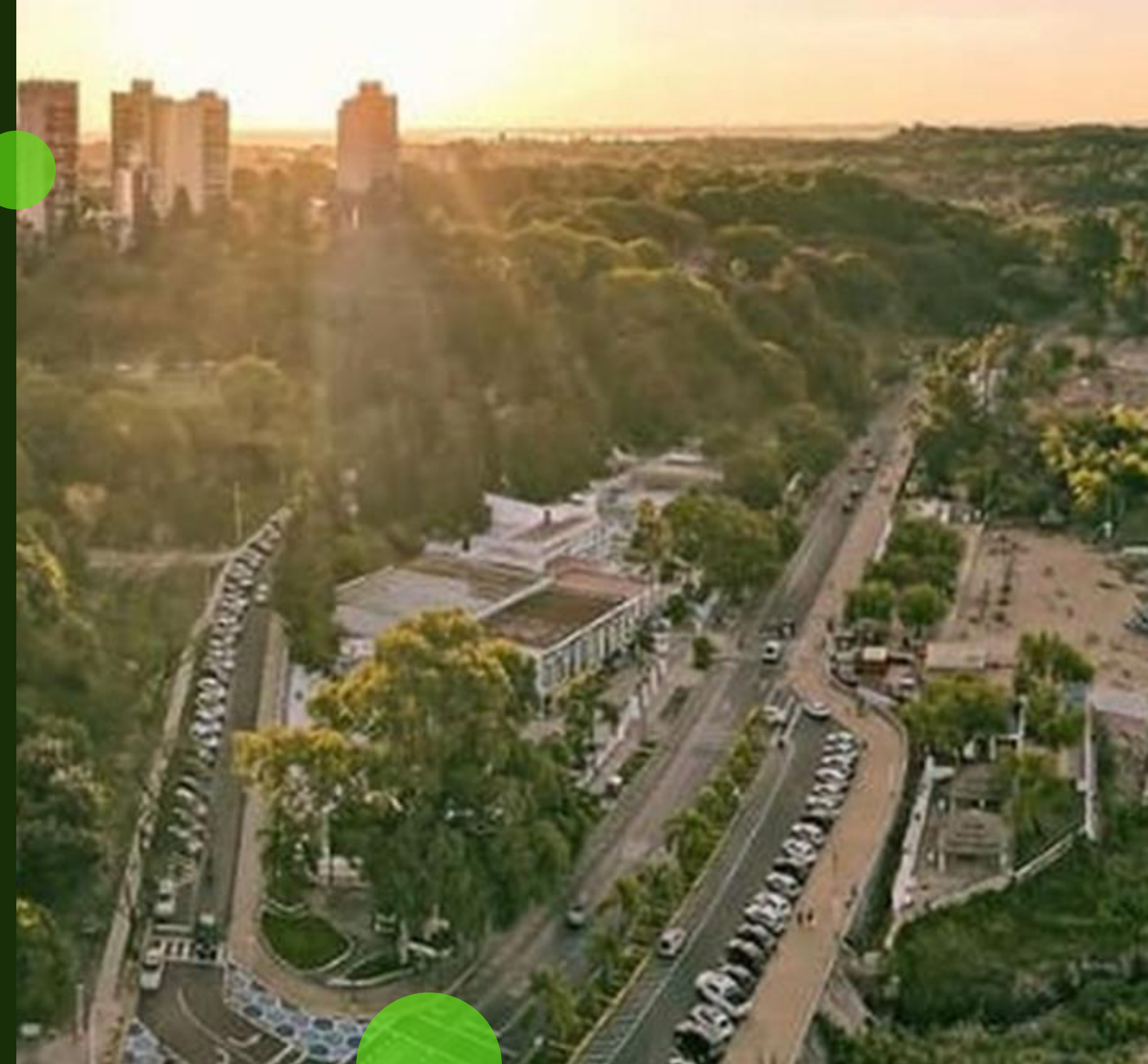
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