

Abstract for 2022 MOTSP

Electric power passenger vessels on the Adriatic – solar potential vs. Recharging

Electric vessels are possible in the Adriatic Sea with certain restrictions. The potential of electric motor vessels in the Adriatic Sea is defined by the speed and autonomy of navigation, the frequency of departure and the size of the vessel. Changes in the design of electric vessels represent a design concept, where hull resistance and vessel weight (displacement) are more important than ever before. In what range are classification societies ready for electric vessels? Can electric boats be used everywhere?

The presentation will answer several topics related to the application to electric vessels.

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HIMSELF

GRADUATED AS NAVAL ARCHITECT ON UNIVERSITY OF ZAGREB, WHERE HE LATER ON STARTS HIS CAREER AS EXTERNAL ASSOCIATE FOR STRUCTURAL ANALYSIS. LEAVING THIS POSITION HE CONTINUES EDUCATION ON BLED SCHOOL OF MANAGEMENT, AND REDIRECT PROFESSIONAL LIFE TOWARD THE ORGANIZATIONAL ISSUES IN EN2ECO LTD, CRONoMAR LTD, AND FINALLY (PRESENT) AT ICAT LTD, AS COFOUNDER AND MANAGING DIRECTOR. PROFESSIONAL INTEREST IS: PROJECT AND INNOVATION DEVELOPMENT, MARITIME GREEN TECHNOLOGIES AND SEA TRANSPORTATION NETWORK DEVELOPMENT.

MANAGING DIRECTOR AT

ICAT COMPANY HAS GROWN FROM A PROJECT TO A COMPANY LEVEL, ESTABLISHED AND MANAGED BY TOMISLAV URODA. ICAT STAND FOR ISLAND CATAMARAN, WITH MISSION TO DEVELOP A PASSENGER TRANSPORTATION MODEL AS A SOLUTION FOR THE COUNTRY OF THOUSAND ISLANDS WITHOUT SUSTAINABLE TRANSPORTATION NETWORK. ICAT IS FOCUSED ON THE DEVELOPMENT OF LOW COST TRANSPORTATION VESSELS, FOSTERING INNOVATIONS, LIGHT MATERIALS AND RENEWABLE ENERGY, DEVELOPING AT THE SAME TIME MODEL OF SUSTAINABLE TRANSPORTATION NETWORK FOR THE ADRIATIC.

SETTING UP A MARITIME COMPANY DEFINED BY THE 3 MAIN BUSINESS DIRECTION:

- CONSULTING (SELECTED REFERENCE LIST):
 - TEAM LEADER ON THE PROJECT: INLAND WATERWAY FLEET ANALYSIS FOR THE MINISTRY OF SEA, TRANSPORT AND INFRASTRUCTURE
 - TEAM LEADER ON THE PROJECT: DEVELOPMENT OF THE ACTION PROGRAM FOR THE MODERNIZATION OF THE CROATIAN INLAND WATERWAY FLEET FOR THE MINISTRY OF SEA, TRANSPORT AND INFRASTRUCTURE
 - TECHNICAL EXPERT ON PUBLIC TENDER: MARKING VESSEL FOR THE AGENCY FOR INLAND WATERWAYS IN CROATIA
 - TECHNICAL EXPERT ON SHIPBUILDING PROCESS OF: MARKING VESSEL FOR THE AGENCY FOR INLAND WATERWAYS IN CROATIA
 - DEVELOPMENT OF NEW PASSENGER TRANSPORTATION MODEL FOR THE CITY OF ŠIBENIK – ŠIBENIK BOAT LINES
 - EUROPEAN COMMISSION EVALUATOR FOR THE EU PROJECTS
- DESIGN (SELECTED REFERENCE LIST):
 - ICAT PASSENGER FERRY – ULTRA LIGHT GREEN VESSEL. COLLABORATION WITH UNIVERSITY OF ZAGREB AND KONČAR INSTITUTE
 - BABYCAT PASSENGER FERRY – ZERO EMISSION SOLAR POWERED PASSENGER FERRY. PUBLIC TENDER WINNER FOR THE NATIONAL PARK OF MLJET
 - PROJECT DESIGN ON NUMEROUS INLAND WATERWAYS VESSELS
 - ULTRASOUND THICKNESS MEASURING
- SHIPBUILDING:

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- SET UP OF SHIPBUILDING PRODUCTION FOR THE BABYCAT VESSELS – THREE BABYCAT VESSELS DELIVERED FOR THE NATIONAL PARK OF MLJET,
- DELIVERY OF THE TCAT-750 TENDER BOAT FOR THE GRAND CRUISE CIRCLE LINE – BOSTON
- EU PROJECTS GRANTED (NATIONAL TENDERS):
 - SOLARCAT PROJECT – DEVELOPMENT OF THE PROTOTYPE VESSEL AND PRODUCTION SET-UP
 - SOLARCAT PROJECT – OUTFITTING PRODUCTION FACILITIES WITH MOULDS FOR THE SOLARCAT/BABYCAT VESSEL
 - ICAT SHIPYARD – OUTFITTING PRODUCTION WITH TOOLS AND OTHER EQUIPMENT
 - ICAT INTERNATIONAL – INTERNATIONAL PRESENTATION OF THE PROJECTS (FAIR EXHIBITIONS, B2B MEETING, PROMOTIONAL MATERIALS)
 - ICAT RESEARCH – OPTIMIZATION OF THE PROPULSION SYSTEM ON ELECTRIC FERRY (DEVELOPED BY THE UNIVERSITY OF ZAGREB)
- INITIATOR OF THE APPLICATION: AUTONOMOUS ELECTRIC VESSELS FOR SMART ISLANDS AND CITIES

SELECTION OF REFERENCES

- ... AS BUSINESS DEVELOPMENT CONSULTANT IN CRONoMAR, LEADED SERIAL PRODUCTION OF ALUMINUM WORKBOATS FOR NORWEGIANS, CONTRACTED JOINT-VENTURE BETWEEN OF LEISURE BOAT PRODUCTION IN SERIES OF 100 BOATS/YEAR, AND DEVELOPED SEVERAL HERD GRANT APPLICATIONS WITH PARTNERS FROM CROATIA, NORWAY AND BOSNIA
- ... DESIGNED AND SUPERVISED SEVERAL CONSTRUCTION PROJECTS FOR OIL INDUSTRY AS SELF STANDING PROJECTS
- ... PARTICIPATED ON THE PROJECT OF ADAPTATION OF JACK-UP PLATFORM “LABIN” AND SEMISUBMERSIBLE PLATFORM “ZAGREB” IN TEAM OF PROF. ČORIĆ
- ... OCCASIONALLY WORKED FOR SHIPTECH GMBH – FLENSBURG (GERMANY), INCLUDING FIELDWORK IN JIANG-DONG SHIPYARD (WUHU, CHINA) ON PROJECT 512 TEU AND 672 TEU CONTAINERS SHIPS