

## A DECADE OF DELIVERING UNSURPASSED SUCCESSES

An unwavering commitment toward solving high-value scientific and engineering problems was the cornerstone upon which our company was founded back in 2001, and remains the promise of the trusted relationships our Customers have enjoyed with us throughout the past 10 years.

Delivering unsurpassed successes, built on a foundation of trust and close partnership, is the primary goal of our work with our Customers. It is with great pride that we present the following successes that boldly exemplify what has been achieved through these close partnerships.

### Pharmaceutical

- **Pancreatic cancer is one of the most invasive and prevalent forms of cancer in the world, with severely limited treatment options. Those afflicted with this disease suffer an extreme mortality rate of ~95% over 5 years.** Several of our Customers have been engaged in an intense pursuit to find a cure for this disease, and we have been an essential partner in their efforts. In a breakthrough two-step approach, we rapidly narrowed the range of possible drug targets using several of our technologies such as Global Sensitivity Analysis and Parallelized Parameter Sweeping, which helped our Customers identify critical attributes required for a successful new biologic drug to fight pancreatic cancer.
- **Faster clinical trials can have major impact in the race to bring new medical cures to the 200 million people worldwide who suffer from hepatitis C virus (HCV).** A pharmaceutical Customer entrusted our scientists with a project to accelerate and derive additional insight from their clinical trials of a novel HCV inhibitory compound. RES Group played a critical role in helping to predict which patients would respond to the HCV inhibitory compound, the optimal duration of treatment, and expected patient effect sizes. By extracting new insights from the data, we were able to assist in both accelerating and streamlining the design of subsequent clinical trial phases, not only decreasing the time to market, but also saving our Customer tens of millions of dollars.

### Energy & Chemical

- **Particularly gratifying was our collaborative work to help our Energy & Chemical Customers to design and operate plants with thorough analysis and remedies of potential hazardous conditions.** This work was particularly essential for “first-of-a-kind” plants where the benefit of prior design and operating experience is lacking. These valuable works helped our Customers to prevent catastrophic loss of lives and damage to the environment in their energy and chemical plants. Developing reliable and cost-effective emergency shutdown procedures in oil refineries, control of unstable flow conditions in off-shore oil platforms, and safety designs in new plants are the results of close and trusted collaboration with our Customers.
- **Reduction of radioactive waste water enabling generation of greener nuclear power was another outcome of dedicated teamwork with an Energy & Chemical Customer.** A Mechanistic Pathway Approach developed by RES engineers led to a novel recipe that significantly reduced an undesirable byproduct of ‘ion exchange resins’ used in purification of cooling water in nuclear power plants. Consequently, nuclear power plants will use cooling water several times longer and significantly reduce radioactive waste water.

### Automotive & Fuel

- **In the race to first-to-market high-performance exhaust gas emissions, the high cost of rare metal catalysts like platinum and rhodium are a major obstacle to cleaner automotive emissions.** Bolstered by the support of an Automotive Customer, we developed a methodology to lower the catalyst cost by determining the minimum noble metal loading required and other key limiting reactions. The results of this project were essential for our Customer to gain a competitive advantage by producing low-cost emission devices with superior performance and bolstering their commitment to supporting a cleaner and greener environment.
- **Alleviating severe, far-reaching air pollution is a problem. As in many regions, Central and Southeast Asia lack readily available clean fuels.** A major Fuel Customer afforded us the opportunity of participating in a project to commercialize a clean fuel that is particularly well suited for use in Asia, the results of which were both successful and rewarding. Our Customer relied on us to produce a forward thinking commercial scale design for a 1-million-tons-per-year DME (dimethyl ether) plant utilizing newly developed DME synthesis technology. When completed in 2013, this plant will generate a valuable product that not only boosts the Company’s business but also will noticeably reduce air pollution.

## A VISION TOWARD THE FUTURE

In today’s fast-paced and changing economic environment, companies must boldly and quickly pursue opportunities while managing risk. In addition, they must keep a sharp focus on the core expertise to meet demanding financial performance, making it clear that a responsive and trusted outsourcing partner is of strategic importance. **RES Group is your trusted and proven partner**, helping your company respond to sudden, often unexpected changes, by providing world-class project execution with cutting edge technologies to not only achieve, but exceed your goals and expectations.

Over the next decade, our mission remains to provide you, our loyal Customers, with a dependable and exceptional partner to execute mission critical projects, enable field-changing breakthroughs, and explore new ideas.

